

Roy F. Weston, Inc.
Federal Programs Division
Suite 201
1090 King Georges Post Road
Edison, New Jersey 08837-3703
732-225-6116 • Fax 732-225-7037

## REMOVAL SUPPORT TEAM EPA CONTRACT 68-W-00-113

RST-02-F-00456

#### TRANSMITTAL MEMO

To:

Neil Norrell, OSC

Responce and Prevention Branch, U.S. EPA Region II

From:

Smita Sumbaly, Inorganic Data Reviewer

RST Region II

Subject:

Standard Chlorine Site

**Data Validation Assessment** 

Date:

January 08, 2002

The purpose of this memo is to transmit the following information:

Data validation results for the following parameters:

**TCLP Metals** 

08 samples

Hexavalent Chromium

18 samples

**TAL Metals** 

18 samples

Matrices and Number of Samples

Soil

13 samples

Liquid/Water

05 samples

Sampling date:

July 18 through 23, 2001

The final data assessment narrative and original analytical data package are attached.

cc:

RST PM:

Robert Finke

RST SITE FILE TDD #:

02-01-05-0018

ANALYTICAL TDD #:

02-01-07-0012

PCS#

1397



#### U.S. ENVIRONMENTAL PROTECTION AGENCY

# MEMORANDUM DATE: <u>January 08, 2002</u>

TO: Neil Norrell, OSC
USEPA Region II

FROM: <u>Smita Sumbaly</u>
RST Data Review Team

SUBJECT: QA/QC Compliance Review Summary

As requested quality control and performance measures for the data packages noted have been examined and compared to EPA standards for compliance. Measures for the following general areas were evaluated as applicable:

Data Completeness

Spectra Matching Quality

Surrogate Spikes

Matrix Spikes/Duplicates

Calibration

Blanks

DFTPP and BFB Tuning

Chromatography

Holding Times

Compound ID (HSL, TIC)

Any statistical measures used to support the following conclusions are attached so that the review may be reviewed by others.

#### **Summary of Results**

|                             | · I                                   | · ÌI          | III             | IV          |
|-----------------------------|---------------------------------------|---------------|-----------------|-------------|
|                             | <u>TAL</u>                            | <u>TCLP</u>   | <u>CR VI</u>    | ·           |
| :                           | <u>Metals</u>                         | <u>Metals</u> | •               |             |
| Acceptable as Submitted     | · · · · · · · · · · · · · · · · · · · | ·             |                 | · <u></u>   |
| Acceptable with Comments    | <u>_X</u>                             | _X            | <u>_X</u> _     | ·           |
| Unacceptable, Action Pendin | g                                     |               |                 |             |
| Unacceptable                | <del></del>                           | <u> </u>      |                 | <del></del> |
| Data Reviewed by:           | Surla Su                              | mbey          | Date: <u>01</u> | 108/02      |
| Approved By:                | Kolure -                              | Juni          | Date: 1 (2      | 29/02       |
| Area Code/Phone No.:        | (732) 225-6116                        |               |                 |             |

## **NARRATIVE**

## CASE No. <u>1397</u>

| SITE NAME:   | IE: Standard Chlorine Site                                       |   |  |  |  |  |
|--|--|---|--|--|--|--|
|  | 1015 Belleville Turnpike, I                                      | Kearny, New Jersey.   |  |  |  |  |
| Laboratory Name:   | Severn Trent Laboratories (                                      | STL), 10 Hazelwood Drive, Amherst, New York.  |  |  |  |  |
| NTRODUCTION:   |  |   |  |  |  |  |
| The laboratory's portion through 23, 2001.   | n of this Case consisted of 13 so                                | il and 05 liquid/water samples collected on July 18   |  |  |  |  |
| The laboratory report  | ed the No problem(s) with the                                    | e receipt of these samples.   |  |  |  |  |
| The laboratory reported No problems with the analyses of TAL metals, TCLP metals, Hexavalent Chromium(CR VI)- Inorganic parameters.  The evaluator has commented on the criteria specified under each fraction heading. All criteria have been assessed, but no discussion is given where the evaluator has determined that criteria were adequately performed or require no comment. Details relevant to these comments are given on the following forms.  Appropriate Form I's and Chain of Custody have been copied from the original data package and appended to the data assessment narrative for reference. |  |   |  |  |  |  |
| V. <u>Inorganic:</u>   |  |   |  |  |  |  |
| Y Blanks Y Spike Sa Y Detection Y ICP Seria Y ICP Interection Y Chain of   | mple Recovery  n Limits  l Dilutions  element Correction Factors | Y Initial and Continuing Calibration Y ICP Interference Check Y Duplicates NA Standard Addition Results Y Holding Times Y ICP Linear Ranges Y Raw Data etc. |  |  |  |  |
| Comments:  | Comments:  |   |  |  |  |  |

Refer to Data Assessment Narrative. 1.

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Title: Evaluation of Inorganic Data for the

Contract laboratory Program

Appendix A.2: Data Assessment Narrative

Date: Jan. 1992

Number: HW-2

Revision: 11

Case #: RFP # 1397

11

Site: Standard Chlorine Site

Matrix:

SDG#: A01-6942 & A01-7010

Lab: Severn Trent Laboratories

Soil: 13

Liquid/Water: 05

Contractor:

**WESTON-RST** 

**Reviewer: SMITA SUMBALY** 

A.2.1 Validation Flags-

The following flags have been applied in red by the data validator and must

be considered by the data user.

J-

This flag indicates the result qualified as estimated.

Red-Line-

A red-line drawn through a sample result indicates an unusable value. The

red-lined data are known to contain significant errors based on documented

information and must not be used by the data user.

Fully Usable Data-

The results that do not carry "J" or "red-line" are fully usable.

Contractual Qualifiers-The legend of contractual qualifiers applied by the laboratory on Form I's is found on page B-20 of SOW ILM01.0.

### A.2.2 The data assessment is given below and on the attached sheets.

From July 18 through 23, 2001, USEPA Region II - personnel collected thirteen (13) solid and five (05) liquid/waste samples for Target Analyte List (TAL), Toxicity Characteristic Leachate Procedure (TCLP) and Hexavalent Chromium inorganic analyses, from the Standard Chlorine Site, Kearny, New Jersey. Within twenty-four hours of collection, samples were shipped via overnight Federal Express courier to Severn Trent Laboratories (STL), 10 Hazelwood Drive, Amherst, New York. The laboratory verified that samples were received intact and properly custody sealed.

Target Analyte List (TAL) inorganic analyses were performed following the SW846 Method Nos. 3010A(Water) 3050(Soil)/6010A for ICP metals and 7470 for mercury. Toxic Compound Leaching Procedure inorganic compound analyses were performed following the SW846 Method Nos. 3010A/3050A/6010A (TCLP metals except for mercury) and 7470 (mercury). Hexavalent Chromium was analyzed according to SW846 Method Nos. 7196.

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Appendix A.2: Data Assessment Narrative

Date: Jan. 1992 Number: HW-2

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#### A.2.2 (continuation)

1.

Client identification (ID) and laboratory ID numbers are as follows:

| Client ID No.           | Laboratory ID No. | Matrix | Analysis                           |
|-------------------------|-------------------|--------|------------------------------------|
| SC-CC10                 | AD114111          | Soil   | TAL/TCLP metals & Cr <sup>+6</sup> |
| SC-CC11                 | AD114112          | Soil   | TAL/TCLP metals & Cr <sup>+6</sup> |
| SC-CC12                 | AD114113          | Soil   | TAL/TCLP metals & Cr <sup>+6</sup> |
| SC-CC13                 | AD114114          | Soil   | TAL/TCLP metals & Cr <sup>+6</sup> |
| SC-COMP1                | AD114115          | Soil   | TAL/TCLP metals & Cr <sup>+6</sup> |
| SC-DC-COMP1             | AD114117          | Soil   | TAL/TCLP metals & Cr <sup>+6</sup> |
| SC-LS-001               | AD114116          | Soil   | TAL/TCLP metals & Cr <sup>+6</sup> |
| SC-CC9                  | AD114108          | Soil   | TAL/TCLP metals & Cr <sup>+6</sup> |
| SC-230                  | AD114259          | Soil   | TAL metals & Cr <sup>+6</sup>      |
| SC-241515               | AD114257          | Soil   | TAL metals & Cr <sup>+6</sup>      |
| SC-493                  | AD114258          | Soil   | TAL metals & Cr <sup>+6</sup>      |
| SC-CC11-COMP            | AD114256          | Soil   | TAL metals & Cr <sup>+6</sup>      |
| SC-DFCOMP1              | AD114260          | Soil   | TAL metals & Cr <sup>+6</sup>      |
| SC-229                  | AD114153          | Water  | TAL metals & Cr <sup>+6</sup>      |
| SC-243                  | AD114737          | Water  | TAL metals & Cr <sup>+6</sup>      |
| SC-PHD-001 <sup>1</sup> | AD114155          | Water  | TAL metals & Cr <sup>+6</sup>      |
| SC-PURH1                | AD114154          | Water  | TAL metals & Cr <sup>+6</sup>      |
| SC-PURM1                | AD114156          | Water  | TAL metals & Cr <sup>+6</sup>      |
|                         |                   |        |                                    |

Soil sample **SC-PHD-001** is a field duplicate sample of sample **SC-PURH1**.

The results presented in the data package are acceptable with the exception noted in the following data assessment narrative.

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Appendix A.2: Data Assessment Narrative

Date: Jan. 1992 Number: HW-2

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A.2.2 (continuation)

#### **MATRIX SPIKE RECOVERY:-**

The following TAL inorganic analytes were either qualified as estimated "J" or rejected "red-lined"in the associated samples due to spike recoveries (% R) outside of specified QC limits in the associated spike samples and because the sample result (SR) concentration < 4 X the spike added (SA) concentration:

#### **SDG #: A01-7010**

| ANALYTE     | PERCENT<br>RECOVERY | QC LIMIT         | QUALIFIER    | ASSOCIATED SAMPLES  |
|-------------|---------------------|------------------|--------------|---|
| Antimony    | 54.2%               | 75 - 125%        | "J"          | SC-230, SC-241515, SC-493, SC-<br>CC11-COMP & SC-DFCOMP1                      |
| Barium      | 53.3%               | 75 - 125%        | "J"          | SC-230, SC-241515, SC-493, SC-<br>CC11-COMP & SC-DFCOMP1                      |
| Cobalt      | 70.1%               | 75 - 125%        | "J"          | SC-230, SC-241515, SC-493, SC-<br>CC11-COMP & SC-DFCOMP1                      |
| Copper      | 65.1%               | 75 - 125%        | n <b>j</b> n | SC-230, SC-241515, SC-493, SC-<br>CC11-COMP & SC-DFCOMP1                      |
| Lead        | 57.1%               | 75 - 125%        | "J"          | SC-230, SC-241515, SC-493, SC-<br>CC11-COMP & SC-DFCOMP1                      |
| Manganese   | -58.8%              | 75 - 125%        | "R"          | SC-230, SC-241515, SC-493, SC-<br>CC11-COMP & SC-DFCOMP1                      |
| Nickel      | -31.6%              | 75 - 125%        | "R"          | SC-230, SC-241515, SC-493, SC-<br>CC11-COMP & SC-DFCOMP1                      |
| Mercury     | 173.2%              | <b>75 - 125%</b> | "J"          | SC-CC11-COMP & SC-DFCOMP1   |
| Vanadium    | -46.5%              | 75 - 125%        | "R"          | SC-230, SC-241515, SC-493, SC-<br>CC11-COMP & SC-DFCOMP1                      |
| Zinc        | 9.5%                | 75 - 125%        | "R"          | SC-230, SC-241515, SC-493, SC-  |
| SDG #: A01- | 6942                | •                |              | CC11-COMP & SC-DFCOMP1  |
| Antimony    | 18.3%               | 75 - 125%        | ոյո          | SC-CC10, SC-CC11, SC-CC12, SC-CC13, SC-COMP1, SC-DC-COMP1, SC-LS-001 & SC-CC9 |
| •           |                     |                  |              | ;   |

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Appendix A.2: Data Assessment Narrative

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#### A.2.2 (continuation)

| ANALYTE  | PERCENT<br>RECOVERY | QC LIMIT  | QUALIFIE | R ASSOCIATED SAMPLES  |
|----------|---------------------|-----------|----------|---|
| Lead     | 70.6%               | 75 - 125% | "J"      | SC-CC10, SC-CC11, SC-CC12, SC-CC13, SC-COMP1, SC-DC-COMP1, SC-LS-001 & SC-CC9 |
| Selenium | 245.8%              | 75 - 125% | "R"      | SC-CC10   |

#### **ICP SERIAL DILUTION:-**

The following positive TAL inorganic data > 10 X IDL (or > MDL when the MDL is > 10 X IDL) were either qualified as estimated "J" or rejected "red-line" because the percent difference (% D) between the Initial Sample result (I) and the Serial Dilution Sample result (S) is either between 10-100% or > 100% when the concentration of I is > 10 X IDL:

#### SDG #: A01-7010

| ANALYTE  | CONTROL<br>LIMIT | PERCENT<br>DIFFERENCE | QUALIFIER | R ASSOCIATED SAMPLES                            |
|----------|------------------|-----------------------|-----------|---|
| Aluminum | >2000 ug/l       | 33.6%                 | "J"       | SC-PURM1, SC-PHD-001, SC-PURH1 & SC-243         |
| Arsenic  | > 70 ug/l        | 12.6%                 | "J"       | SC-243  |
| Barium   | > 100 ug/l       | 33.8%                 | "J"       | SC-PURM1, SC-PHD-001, SC-PURH1, SC-229 & SC-243 |
| Calcium  | > 5000 ug/l      | 41.7%                 | ոյո       | SC-PURM1, SC-PHD-001, SC-PURH1 & SC-243         |
| Chromium | > 20 ug/l        | 38.9%                 | "J"       | SC-PURM1, SC-PHD-001, SC-PURH1, SC-229 & SC-243 |
| Cobalt   | > 50 ug/l        | 38.3%                 | "J"       | SC-PURM1 & SC-243                               |
| Copper   | >100 ug/l        | 34.0%                 | "J"       | SC-PURM1, SC-PHD-001, SC-PURH1 & SC-229         |
| Iron     | > 500 ug/l       | 22.0%                 | "J"       | SC-PURM1, SC-PHD-001, SC-PURH1, SC-229 & SC-243 |

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A.2.2 (continuation)

| ANALYTE     | CONTROL LIMIT | PERCENT<br>DIFFERENCE | QUALIFIER | ASSOCIATED SAMPLES  |
|-------------|---------------|-----------------------|-----------|---|
| Lead        | > 100 ug/l    | 35.1%                 | "J"       | SC-PURM1, SC-PHD-001, SC-<br>PURH1, SC-229 & SC-243                           |
| Magnesium   | > 2000 ug/l   | 38.1%                 | ոյո       | SC-PURM1, SC-PHD-001 & SC-243   |
| Manganese   | > 30 ug/l     | 39.8%                 | "J"       | SC-PURM1, SC-PHD-001, SC-PURH1, SC-243 & SC-229                               |
| Nickel      | > 100 ug/l    | 19.8%                 | ոյո       | SC-243 & SC-PURM1   |
| Potassium   | > 5000 ug/l   | 19.7%                 | "J"       | SC-PURM1, SC-PHD-001 & SC-PURH1   |
| Sodium      | > 10,000 ug/l | 19.6%                 | "J"       | SC-PURM1, SC-PHD-001 & SC-PURH1   |
| Vanadium    | >50 ug/l      | 35.8%                 | "J"       | SC-PURM1, SC-PURH1 & SC-243   |
| Zinc        | >200 ug/l     | 23.4%                 | "J"       | SC-PURM1, SC-PHD-001, SC-PURH1, SC-229, SC-243 & SC-DFCOMP1                   |
| SDG #: A01- | <u>-6942</u>  |                       |           |   |
| Cadmium     | >50 ug/l      | 73.8%                 | "J"       | SC-CC10 & SC-CC9  |
| Manganese   | > 100 ug/l    | 12.1%                 | "J"       | SC-CC10, SC-CC11, SC-CC12, SC-CC13, SC-COMP1, SC-DC-COMP1, SC-LS-001 & SC-CC9 |
| Zinc        | > 100 ug/l    | 14.2%                 | "J"       | SC-CC10, SC-CC11, SC-CC12, SC-CC13, SC-COMP1, SC-DC-COMP1, SC-LS-001 & SC-CC9 |
| Thallium    | > 600 ug/l    | 53.8%                 | "J"       | SC-CC10, SC-CC11, SC-CC12, SC-COMP1, SC-LS-001 & SC-CC9                       |

Sample was previously qualified due to other QC criteria.

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Evaluation of Inorganic Data for the

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Appendix A.2: Data Assessment Narrative

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A.2.2 (continuation)

#### **CRDL STANDARD RECOVERY:-**

The following analytes were qualified estimated "J" due to Contract Required Detection Limit (CRDL) Standard Percent recoveries (% R) outside quality control limits and because their concentration fell within "affected ranges":

#### SDG #: A01-7010

| <u>ANALYTE</u>       | % RECOVERY | AFFECTED<br>RANGE | <u>QUALIFIER</u> | ASSOCIATED SAMPLES   |
|----------------------|------------|-------------------|------------------|--|
| Selenium             | 61.8%      | 0.0 - 20.0 ug/l   | "J"              | SC-230, SC-241515, SC-493,<br>SC-CC11-COMP & SC-<br>DFCOMP1            |
| Mercury  SDG #: A01- |            | 0.0-0.4 ug/l      | <b>"J"</b>       | SC-230, SC-241515, SC-493,<br>SC-PHD-001, SC-PURH1,<br>SC-229 & SC-243 |
| TCLP Metal           | <u>s</u>   |                   | •                |  |
| Mercury              | 65.0%      | 0.0-0.4 ug/l      | "J"              | SC-CC9, SC-CC10, SC-<br>CC12, SC-CC13, SC-DC-<br>COMP1 & SC-LS-001     |
| TAL Metals           |            |                   |                  |  |
| Mercury              | 70.0%      | 0.0-0.4 ug/l      | "J"              | SC-CC9 & SC-COMP1  |

### **PERCENT SOLID OF SEDIMENTS:-**

The following analytes were qualified as estimated "J" or rejected "red-lined" in the associated samples due to soil content in the sediments is less than 50%.

#### SDG #: A01-7010

| <u>ANALYTE</u>   | % SOLIDS       | <u>LIMIT</u> | <u>QUALI</u> | FIER ASSOCIATED SAMPLES |  |
|--|----------------|--------------|--------------|-------------------------|--|
| Al, As, Be, Cd, Ca,<br>Cr, Fe, Mg, K, Hg,<br>Ag, Na & Tl | between 10-50% | > 50%        | "J"          | SC-DFCOMP1              |  |
| Ag, Na & Tl  |                | •            |              |                         |  |

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Appendix A.2: Data Assessment Narrative

Date: Jan. 1992 Number: HW-2

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A.2.2 (continuation)

#### FIELD DUPLICATE ANALYSIS:-

The following analytes were either qualified as estimated ("J") or rejected ("redlined") in the associated field duplicate samples because the Relative Percent Difference (RPD) or Difference (Diff) between the samples and corresponding field duplicate samples were outside the specified QC criteria:

| ANALYTE                    | RPD/DIFFERENCE | QUALIFIER | ASSOCIATED SAMPLES                              |
|----------------------------|----------------|-----------|---|
| Aluminum, Magnesium & Zinc | RPD > 50%      | "J"       | SC-PURH1 <sup>1</sup> & SC-PHD-001 <sup>1</sup> |
| Antimony, Cobalt & Nickel  | diff > EQL     | ոյո       | SC-PURH1 & SC-PHD-001                           |
| Vanadium                   | >50%           | "J"       | SC-PURH1 <sup>1</sup> & SC-PHD-001              |

Sample was previously qualified due to other QC criteria.

#### **HEXAVALENT CHROMIUM**

#### **HOLDING TIME:**

Mercury: The following data were qualified as estimated "J" or rejected "R" due to exceeding holding time criteria:

#### **SDG #: A01-7010**

| MATRIX | PRESERVATION | DATE<br>COLLECTED | VTSR AT LAB | DATE<br>ANALYZED | QUALIFIER<br>SAMPLES | ASSOCIATED |
|--------|--------------|-------------------|-------------|------------------|----------------------|------------|
| Soil   | cool 4°C     | 07/23/01          | 07/24/01    | 08/25/01         | "J"                  | SC-DFCOMP1 |

#### SDG #: A01-6942

The following data were qualified as estimated "J" in the indicated samples because either the absolute difference between the sample (S) and the laboratory duplicate sample (D) is > the MDL when either S and/or D are < 5 X the MDL, or the Relative Percent Difference (RPD) between S and D is > 100% for non-aqueous data (or > 50% for aqueous data) when S and D are both > 5 X the MDL:

| <u>ANALYTE</u> | <b>MATRIX</b> | RPD/DIFFERENCE      | <b>QUALIFI</b> | ER ASSOCIATED SAMPLES                             |
|----------------|---------------|---------------------|----------------|---|
| Cr VI          | Soil          | Diff >MDL(20%limit) | "J"            | SC-CC10, SC-CC12, SC-CC13, SC-COMP1 & SC-DC-COMP1 |

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Appendix A.2: Data Assessment Narrative

Date: Jan. 1992 Number: HW-2 Revision: 11

#### A.2.2 (continuation)

#### A.2.3 Contract Problem/Non-Compliance:

SDG #: A01-7010

1)

Mercury in sample SC-229 & Antimony in sample SC-243 not required "N" qualifier. Arsenic not require "E" qualifier in samples SC-PURM1, SC-229, SC-PHD-001, SC-PURH-01 & Form 2)

SDG #: A01-6942

Incorrect statement in case narrative - Selenium is outside the control limit due to matrix spike recovery 3) criteria, not Mercury. - Lab corrected the case narrative.

MMB/ESAT Reviewer:

Signature

Date:

Contractor Reviewer:

Verified by:

PROJECT: STANDARD CHLORINE SITE

**SAMPLING DATES: JULY 23, 2001** 

SAMPLE #/CONCENTRATION (mg/kg)

|                 |            |          |   |          | 3/ | MINITE #ICC | JINU | ENIKATION | (wi | ykg)     |   |
|-----------------|------------|----------|---|----------|----|-------------|------|-----------|-----|----------|---|
|                 | Matrix:    | WATER    |   | WATER    |    | WATER       |      | WATER     |     | WATER    |   |
| Total Metals    | Client ID: | SC-229   |   | SC-243   |    | SC-PHD-001  |      | SC-PURH1  |     | SC-PURM1 |   |
|                 | _ Lab ID:  | AD114153 |   | AD114737 |    | AD114155    |      | AD114154  |     | AD114156 |   |
| Percent Solids  |            | 0.0      |   | 0.0      |    | 0.0         |      | 0.0       |     | 0.0      |   |
| Dilution Factor | IDL        | 1.0      |   | 1.0      |    | 1.0         |      | 1.0       |     | 1.0      | · |
| Aluminum        | 200        | 1250     | • | 685000   | J  | 18000       | J    | 36500     | J   | 47800    | J |
| Antimony        | 20         | U        |   | 57.5     |    | 79.9        | J    | 36.4      | J   | 40.6     |   |
| Arsenic         | 7.0        | 3120     |   | 149      | J  | 7.7         |      | 15.1      |     | 49.7     |   |
| Barium          | 1.0        | 181      | J | 28.1     | J  | 1100        | J    | 1410      | J   | 285      | J |
| Beryllium       | 5.0        | Ų        |   | 16.4     |    | U           |      | U         |     | υ        |   |
| Cadmium         | 1.0        | 49.7     |   | 9.8      |    | 1.7         |      | 1.6       |     | 8.9      |   |
| Calcium         | 500        | Ų        |   | 310000   | J  | 238000      | J    | 367000    | J   | 93900    | J |
| Chromium        | 2.0        | 499      | C | 11300    | J  | 196         | J    | 313       | J   | 7600     | J |
| Cobalt          | 5.0        | U        |   | 318      | J  | 10.1        | J    | 17.6      | J   | 86.6     | J |
| Copper          | 10.0       | 150      | J | 648      |    | 121         | J    | 166       | J   | 257      | J |
| Iron            | 50.0       | 1480000  | J | 522000   | J  | 76400       | J    | 81400     | J   | 736000   | J |
| Lead            | 10.0       | 392      | J | 585      | J  | 138         | J    | 112       | J   | 216      | J |
| Magnesium       | 200        | 482      |   | 190000   | J  | 5640        | J    | 11300     | J   | 60800    | J |
| Manganese       | 3.0        | 2710     | J | 6550     | J  | 567         | J    | 764       | J   | 3190     | J |
| Mercury         | 0.2        | · U      | J | U        | J  | U           | J    | Ų         | J   | 30.7     |   |
| Nickel          | 10.0       | ŭ        |   | 1870     | J  | 40.0        | J    | 74.6      | J   | 289      | J |
| Potassium       | 500        | 559      |   | 114000   |    | 56300       | J    | 79100     | J   | 15100    | J |
| Selenium        | 10.0       | 2980     |   | U        |    | Ü           |      | Ų         |     | 19.9     |   |
| Silver          | 3.0        | U.       |   | U        |    | ٥           |      | U         |     | U        |   |
| Sodium          | 1000       | 3530     |   | 1060000  | -  | 126000      | J    | 152000    | J   | 176000   | J |
| Thallium        | 20.0       | Ų        |   | U        |    | 21.7        |      | 20.3      |     | 166      |   |
| Vanadium        | 5.0        | 34.1     |   | 2380     | J  | 35.7        | ل    | 75.1      | j   | 518      | J |
| Zinc            | 20.0       | 357      | ے | 2160     | J  | 88100       | J    | 29600     | J   | 30400    | J |

#### Inorganic Qualifiers

**IDL - Instrument Detection Limit** 

U - non-detected compound

J - estimated value

B - between the instrument detection limit (IDL) and the contract required detection limit (CRDL)

PROJECT: STANDARD CHLORINE SITE

**SAMPLING DATES: JULY 23, 2001** 

**SAMPLE #/CONCENTRATION (mg/kg)** 

|                 |             |                                       |   |           |   | WIII EE 11100 | ,,,,,, | EIALIOZIIOIA (II                        | .8, | ···g/      |    |
|-----------------|-------------|---------------------------------------|---|-----------|---|---------------|--------|---|-----|------------|----|
|                 | Matrix:     | SOIL                                  |   | SOIL      |   | SOIL          |        | SOIL                                    |     | SOIL       |    |
| Total Metals    | Client ID:  | SC-230                                |   | SC-241515 |   | SC-493        |        | SC-CC11-COMP                            |     | SC-DFCOMP1 | l  |
|                 | Lab ID:     | AD114259                              |   | AD114257  |   | AD114258      |        | AD114256                                |     | AD114260   |    |
| Percent Solids  |             | 65                                    |   | 100       |   | 100           |        | 100                                     |     | 36         |    |
| Dilution Factor | IDL         | 1.0                                   |   | 1.0       |   | 1.0           |        | 1.0                                     |     | 1.0        |    |
|                 | <del></del> | · · · · · · · · · · · · · · · · · · · |   |           |   | ,             |        | , |     |            |    |
| Aluminum        | 20.00       | U                                     |   | 135       |   | U             |        | Ų                                       |     | 4920       | J  |
| Antimony        | 10.00       | U                                     | J | Ũ         | J | Ũ             | J      | U                                       | J   | U          | J  |
| Arsenic         | 1.00        | Ü                                     |   | 1.2       |   | 11.4          |        | U                                       |     | 4.5        | J  |
| Barium          | 1.00        | 8.3                                   | J | U         | J | U             | J      | טַ                                      | J   | 32.0       | J  |
| Beryllium       | 0.50        | U                                     |   | U         |   | U             |        | U                                       |     | Ų          | J  |
| Cadmium         | 0.50        | U                                     |   | U         |   | U             |        | U                                       |     | U          | J. |
| Calcium         | 100         | 1050                                  |   | U         |   | Ŭ             |        | U                                       |     | 17400      | J  |
| Chromium        | 2.00        | 4.7                                   |   | 6.1       | - | U             |        | 2.4                                     |     | 2440       | J  |
| Cobalt          | 2.00        | . U                                   | J | U         | J | U             | J      | U                                       | J   | 14.6       | J  |
| Copper          | 2.00        | 4.8                                   | J | U         | J | U             | J      | υ                                       | J   | 18.0       | J  |
| Iron            | 15.0        | 136                                   |   | 654       |   | 255           |        | 399                                     |     | 11400      | J  |
| Lead            | 5.00        | Ų                                     | Ţ | U         | J | U             | J      | U                                       | J.  | 26.4       | J  |
| Magnesium       | 20.0        | 419                                   |   | Ų         |   | U             |        | U                                       |     | 4750       | J  |
| Manganese       | 1.00        | R                                     |   | R         |   | R             |        | R                                       |     | R          |    |
| Mercury         | 0.10        | υ                                     | J | U         | ٦ | Ų             | J      | 0.156                                   |     | 1.5        | J  |
| Nickel          | 2.00        | R                                     |   | R         |   | R             |        | R                                       |     | R          |    |
| Potassium       | 200         | U                                     |   | U         |   | 613           |        | Ų                                       |     | U          | J  |
| Selenium        | 3.00        | U                                     | J | U         | J | U             | J      | U                                       | J   | U          | J  |
| Silver          | 1.00        | Ų                                     |   | U         |   | U             |        | U                                       |     | U          | J  |
| Sodium          | 100         | 398                                   |   | U         |   | *126000       |        | 714                                     |     | 1490       | J  |
| Thallium        | 6.00        | U                                     |   | U         |   | U             |        | U                                       |     | U          | J  |
| Vanadium        | 1.00        | R                                     |   | R         |   | R             |        | R                                       |     | R          |    |
| Zinc            | 1.00        | R                                     |   | R         |   | R             |        | R                                       |     | R          |    |

Zn: 5 X D/F

Na: 40 X D/F

#### Inorganic Qualifiers

**IDL - Instrument Detection Limit** 

U - non-detected compound

J - estimated value

B - between the instrument detection limit (IDL) and the contract required detection limit (CRDL)

#### PROJECT: STANDARD CHLORINE SITE

**SAMPLING DATES: JULY 23, 2001** 

#### **SAMPLE #/CONCENTRATION (mg/kg)**

| <del> </del>    |            |              |   |              |   |             |   |             |   |             |   |
|-----------------|------------|--------------|---|--------------|---|-------------|---|-------------|---|-------------|---|
| <b>F</b> - 5    | Matrix:    | SOIL         |   | SOIL         |   | SOIL        |   | SOIL        |   | SOIL        |   |
| Total Metals    | Client ID: | SC-CC10      |   | SC-CC11      |   | SC-CC12     |   | SC-CC13     |   | SC-COMP1    |   |
| ,               | Lab ID:    | AD114111     |   | AD114112     |   | AD114113    |   | AD114114    |   | AD114115    |   |
| Percent Solids  |            | 84.41        |   | 61.89        |   | 71.36       |   | 67.52       |   | 76.89       |   |
| Dilution Factor | IDL        | 1.0          |   | 1.0          |   | 1.0         |   | 1.0         |   | 1,0         |   |
|                 |            |              |   |              |   |             |   |             |   |             |   |
| Aluminum        | 20.00      | 904          |   | 655          |   | 188         |   | 587         |   | 496         |   |
| Antimony        | 10.00      | U            | J | 24.2         | J | 210         | J | 272         | J | 152         | J |
| Arsenic         | 1.00       | 40.3         |   | 53.3         |   | 26.8        |   | 18.0        |   | 26.1        |   |
| Barium          | 1.00       | 9.9          |   | 34.4         |   | 5.7         |   | 20.8        |   | 15.0        |   |
| Beryllium       | 0.50       | U            |   | U            |   | U           |   | U           |   | U           |   |
| Cadmium         | 0.50       | 11.1         | J | 8.1          |   | 4.8         |   | 3.5         |   | 3.5         |   |
| Calcium         | 100        | 356          |   | 3180         |   | 820         |   | 3620        |   | 1590        |   |
| Chromium        | 2.00       | 230          |   | 442          |   | 289         |   | 390         |   | 247         |   |
| Cobalt          | 2.00       | 41.3         |   | 60.0         |   | 40.3        |   | 30.3        |   | 27.3        |   |
| Copper          | 2.00       | 621          |   | 895          |   | 623         |   | 564         |   | 445         |   |
| Iron            | 15.0       | *554000      |   | *618000      |   | *461000     |   | *288000     |   | *387000     |   |
| Lead            | 5.00       | 49.1         | J | 116          | J | 26.8        | J | 51.1        | J | 53.7        | J |
| Magnesium       | 20.0       | 163          |   | 1120         |   | 248         |   | 931         |   | 529         |   |
| Manganese       | 1.00       | 1740         | J | 2710         | J | 1560        | J | 1590        | J | 1340        | J |
| Mercury         | 0.10       | *28.2        |   | *62.9        |   | 0.775       |   | 166         |   | U           | J |
| Nickel          | 2.00       | 162          |   | 248          |   | 156         |   | U           |   | 138         |   |
| Potassium       | 200        | U            |   | U            |   | U           |   | U           |   | U           |   |
| Selenium        | 3.00       | R            |   | *U           |   | *U          |   | 2.8         |   | Ü           |   |
| Silver          | 1.00       | U            |   | Ū            |   | U           |   | Ų           |   | U           |   |
| Sodium          | 100        | 633          |   | 2870         |   | *142000     |   | *125000     |   | *71600      |   |
| Thallium        | 6.00       | 115          | J | *290         | J | *188        | J | *U          |   | *157        | J |
| Vanadium        | 1.00       | 2.3          |   | 20.4         |   | 4.4         |   | 3.8         |   | 6.5         |   |
| Zinc            | 1.00       | 130          | J | 320          | J | 53.6        | J | 192         | J | 181         | J |
|                 |            | Fe:100 X D/F | • | Fe:100 X D/F |   | Fe:10 X D/F |   | Fe:20 X D/F |   | Fe:10 X D/F |   |

Fe:100 X D/F Hg:100 X D/F Fe:100 X D/F Se:10 X D/F TI:10 X D/F

Hg:100 X D/F

Fe:10 X D/F Se:10 X D/F TI:10 X D/F

Na:10 X D/F

Fe:20 X D/F TI:20 X D/F Na:20 X D/F

Hg:100 X D/F

Fe:10 X D/F TI:10 X D/F Na:10 X D/F Hg:100 X D/F

#### **Inorganic Qualifiers**

**IDL - Instrument Detection Limit** 

U - non-detected compound

J - estimated value

B - between the instrument detection limit (IDL) and the contract required detection limit (CRDL)

#### PROJECT: STANDARD CHLORINE SITE

**SAMPLING DATES: JULY 23, 2001** 

SAMPLE #/CONCENTRATION (mg/kg)

|                 | •          | *           |           | Q, | CIVIL EF MOC | 11401 | ENTRATION (M | #^9 <i>)</i> |
|-----------------|------------|-------------|-----------|----|--------------|-------|--------------|--------------|
| _               | Matrix:    | SOIL        | SOIL      |    | SOIL         |       |              |              |
| Total Metals    | Client ID: | SC-DC-COMP1 | SC-LS-001 |    | SC-CC9       |       |              |              |
|                 | Lab ID:    | AD114117    | AD114116  |    | AD114108     |       |              |              |
| Percent Solids  |            | 73.53       | 72.28     |    | 73.17        |       |              |              |
| Dilution Factor | IDL        | 1.0         | 1.0       |    | 1.0          |       |              |              |
| Aluminum        | 20.00      | 10900       | 11900     | ·  | 478          |       |              |              |
| Antimony        | 10.00      | 25.2 J      | 53.0      | J  | U            | · J   |              |              |
| Arsenic         | 1.00       | 5.8         | 26.6      |    | 48.5         | •     |              |              |
| Barium          | 1.00       | 67.9        | 238       |    | 16.2         |       |              |              |
| Beryllium       | 0.50       | Ų           | U         |    | U            |       |              |              |
| Cadmium         | 0.50       | U           | 4.5       |    | 12.2         | J     |              |              |
| Calcium         | 100        | 49900       | 22500     |    | Ú            | •     |              |              |
| Chromium        | 2.00       | 4910        | 4220      |    | 229          |       |              |              |
| Cobalt          | 2.00       | 29.5        | 72.2      |    | 40.1         |       |              |              |
| Copper          | 2.00       | 22.1        | 497       |    | 459          |       |              |              |
| Iron            | 15.0       | 21900       | *343000   |    | *759000      |       |              |              |
| Lead            | 5.00       | 1150 J      | 410       | J  | 66.0         | J     |              |              |
| Magnesium       | 20.0       | 11000       | 13100     |    | 213          |       |              |              |
| Manganese       | 1.00       | 266 J       | 1360      | ٦  | 2550         | J     |              |              |
| Mercury         | 0.10       | 0.134       | *18.6     |    | U            | J     |              |              |
| Nickel          | 2.00       | 131         | 343       |    | 203          |       |              |              |
| Potassium       | 200        | 992         | U         |    | U            |       |              |              |
| Selenium        | 3.00       | U           | U         |    | *U           |       |              |              |
| Silver          | 1.00       | U           | Ų .       |    | U            | •     |              |              |
| Sodium          | 100        | 1170        | 577       |    | 193          |       |              |              |
| Thallium        | 6.00       | U           | *140      | J  | *286         | J     |              | -            |
| Vanadium        | 1.00       | 150         | 547       |    | 6.1          |       |              |              |
| Zinc            | 1.00       | 96.1 J      | *1180     | J  | 311          | J     |              | 71           |

Hg:100 X D/F Fe:10 X D/F

Fe:100 X D/F Se:10 X D/F

TI:10 X D/F

TI:10 X D/F

Zn:10 X D/F

#### Inorganic Qualifiers

**IDL - Instrument Detection Limit** 

U - non-detected compound

J - estimated value

B - between the instrument detection limit (IDL) and the contract required detection limit (CRDL)

#### PROJECT: STANDARD CHLORINE SITE

**SAMPLING DATE: JULY 20, 2001** 

SAMPLE #/CONCENTRATION (ug/L)

| TCLP<br>Compounds | Regulatory Level | Water<br>SC-CC10<br>AD114143 | Water<br>SC-CC11<br>AD114144 | Water<br>SC-CC12<br>AD114145 | Water<br>SC-CC13<br>AD114146 | Water<br>SC-COMP1<br>AD114147 |  |  |  |
|-------------------|------------------|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|--|--|--|
| Dilution Factor   |                  | 1.0                          | 1,0                          | 1.0                          | 1.0                          | 1.0                           |  |  |  |
| TCLP Metals       |                  |                              |                              |                              |                              |                               |  |  |  |
| Arsenic           | 5.0              | U                            | U                            | 84.0                         | 8.7                          | ۲                             |  |  |  |
| Barium            | 100              | 374                          | 657                          | 544                          | 244                          | 589                           |  |  |  |
| Cadmium           | 1.0              | 2.0                          | 2.2                          | U                            | Ü                            | U                             |  |  |  |
| Chromium          | 5.0              | 17.0                         | 254                          | 2570                         | 711                          | 444                           |  |  |  |
| Lead              | 5.0              | U                            | U                            | U                            | U                            | U                             |  |  |  |
| Mercury           | 0.2              | U J                          | 1.7                          | 0.413 J                      | 0.358 J                      | 2.2                           |  |  |  |
| Selenium          | 1.0              | Ü                            | U                            | U                            | U                            | U                             |  |  |  |
| Silver            | 5.0              | Ü                            | U                            | U                            | U                            | U                             |  |  |  |

| TCLP<br>Compounds | Regulatory Level | Water<br>SC-DC-COMP<br>AD114149 | 1 | Water<br>SC-LS-01<br>AD114148 |   | Water<br>SC-CC9<br>AD114140 |   |   | 3 |
|-------------------|------------------|---------------------------------|---|-------------------------------|---|-----------------------------|---|---|---|
| Dilution Factor   |                  | 1.0                             |   | 1.0                           |   | 1.0                         |   |   |   |
| TCLP Metals       |                  |                                 |   |                               |   |                             |   | - |   |
| Arsenic           | 5.0              | Ü                               |   | U                             |   | U                           |   |   |   |
| Barium            | 100              | 402                             |   | 820                           |   | 424                         |   |   |   |
| Cadmium           | 1.0              | U                               |   | 3.6                           |   | 2.0                         |   |   |   |
| Chromium          | 5.0              | 11000                           |   | 44.2                          |   | 5.1                         |   |   |   |
| Lead              | 5.0              | U                               |   | Ü                             |   | U                           |   |   |   |
| Mercury           | 0.2              | U                               | J | Ü                             | J | U                           | Ĵ | - |   |
| Selenium          | 1.0              | U                               |   | U                             |   | U                           |   |   |   |
| Silver            | 5.0              | U                               |   | U                             |   | U                           |   |   |   |

ND - Not Detected

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound at an estimated value

PROJECT: STANDARD CHLORINE SITE

SAMPLING DATE: JULY 20-23, 2001

**SAMPLE #/CONCENTRATION (MG/KG)** 

|                     |                                  |      |                             | State LE MOSITOLITIES (MONTO) |      |                  |                  |   |  |  |
|---------------------|----------------------------------|------|-----------------------------|-------------------------------|------|------------------|------------------|---|--|--|
| CR VI Percent Solid | Regulatory Level SC-CC9 A1694201 |      | Soil<br>SC-CC10<br>A1694202 | Soil<br>SC-CC11<br>A1694203   |      | Soil<br>SC-CC12  | Soil<br>SC-CC13  |   |  |  |
|                     |                                  | 73.2 | 84.4                        |                               | 61.9 | A1694204<br>71,4 | A1694205<br>67.5 |   |  |  |
|                     |                                  |      |                             |                               |      |                  |                  |   |  |  |
| Hexavalent Chromium | 1.0                              | U    | 1690                        | J                             | U    | 94400 J          | 19900            | J |  |  |

| CR VI Percent Solid | Regulatory Level | Soil<br>SC-COMP1<br>A1694206<br>76.9 |   | Soil<br>SC-LS-01<br>A1694207<br>72.3 | Soil<br>SC-DC-COMP1<br>A1694208<br>73.5 |   |         |             |
|---------------------|------------------|--------------------------------------|---|--------------------------------------|---|---|---------|-------------|
|                     |                  |                                      |   | 12.0                                 | 7 3.3                                   |   | <br>.,, | <del></del> |
| Hexavalent Chromium | 1.0              | 2160                                 | J | U                                    | 1710                                    | J |         | ····        |

| CR VI               | Regulatory Level | Soil<br>SC-GC11-COMP | Soil<br>SC-DF-COMP1 | Soil<br>SC-230   | Soit<br>SC-241515 | Soil<br>SC-493  |
|---------------------|------------------|----------------------|---------------------|------------------|-------------------|-----------------|
| Percent Solid       |                  | A1701001<br>0.0      | A1701202<br>36.3    | A1701201<br>65.2 | A1701002<br>0.0   | A1701004<br>0.0 |
|                     |                  |                      |                     |                  |                   |                 |
| Hexavalent Chromium | 1.0              | U                    | 920 J               | U                | U                 | U               |

SAMPLE #/CONCENTRATION (MG/L)

| SAMPLE #CONCENTRATION (MG/L) |  |  |  |   |   |  |  |  |  |  |
|------------------------------|--|--|--|---|---|--|--|--|--|--|
| Regulatory Level             | Water<br>SC-PHD-001<br>A1701103<br>1.0 | Water<br>SC-PURH1<br>A1701102                  | Water<br>SC-PURM1<br>A1701104                              | Water<br>SC-229<br>A1701101   | Water<br>SC-243<br>A1701105   |  |  |  |  |  |
|                              |  |  | 1.0  | 10  | 2.0   |  |  |  |  |  |
| 0.01                         | U                                      | U  | U  | 0.10  | I i   |  |  |  |  |  |
|                              |  | Regulatory Level SC-PHD-001<br>A1701103<br>1.0 | Water   Water   SC-PURH1   A1701103   A1701102   1.0   1.0 | Water   Water   Water   Water   SC-PHD-001   SC-PURH1   SC-PURM1   A1701103   A1701102   A1701104   1.0   1.0   1.0 | Water   Water   Water   Water   Water   SC-PHD-001   SC-PURH1   SC-PURM1   SC-229   A1701103   A1701102   A1701104   A1701101   1.0   1.0   1.0 |  |  |  |  |  |

ND - Not Detected

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

JN - presumptive evidence of a compound at an estimated value

## **DUPLICATES**

EPA SAMPLE NO.

STL-BUHLANCE Contract: WESTON-RST Lab Name: \_\_

Lab Code: <u>STLBFLO</u>

Case No.: <u>1397</u>

SAS No.:

SDG No.: <u>A01-70/6</u>

Matrix (soil/water): Walth

Level (low/med): Low

% Solids for Sample: NA

% Solids for Duplicate: \_

Concentration Units (ug/L or mg/kg dry weight):

| Analyte   Control   Limit   Sample (S)   C   Duplicate (D)   C   RPD   Q M    Aluminum   \$\frac{50'}{2} \]  Aluminum   \$\frac{50'}{2} \]  Antimony   \$\pmu 20 \]  Arsenic   \$\pmu 7 \cdot 0 \]  Barium   \$\frac{50'}{2} \]  Barium   \$\frac{50'}{2} \]  Barium   \$\frac{50'}{2} \]  Baryllium   \$\frac{50'}{2} \]  Baryllium   \$\frac{50'}{2} \]  Chromium   \$\frac{50'}{2} \]  Chromium   \$\frac{50'}{2} \]  Cobalt   \$\frac{15}{2} \cdot 0 \]  Copper   \$\frac{50'}{2} \]  Cobalt   \$\frac{15}{2} \cdot 0 \]  Copper   \$\frac{50'}{2} \]  Lead   \$\frac{50'}{2} \]  Magnesium   \$\frac{50'}{2} \]  Magnesiu |  |  |   |   |   |  | <br>7,277 |
|--|--|--|---|---|---|--|-----------|
| Antimony   | Analyte  |  |   | 1 1   | C |  | -         |
|  | Antimony_Arsenic_Barium_Beryllium_Cadmium_Chromium_Chromium_Cobalt_Copper_Iron_Lead_Magnesium_ManganeseMercury_Nickel_Potassium_Selenium_Silver_Sodium_Thallium_Vanadium_Zinc_Inc_IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | # 10<br>\$01.<br>\$01.<br>\$01.<br>\$01.<br>\$01.<br>\$01.<br>\$01.<br>\$01.<br>\$01.<br>\$01.<br>\$01.<br>\$01.<br>\$01.<br>\$01. | 36.4<br>15.1<br>1410<br>1.6<br>367000<br>313<br>17.6<br>166<br>81400<br>11300<br>74.6<br>79100<br>U<br>158000<br>20.3<br>75.1 | 18000<br>79.9<br>7.7<br>1100<br>1.7<br>238000<br>196<br>10.1<br>121<br>76400<br>138<br>5640<br>567<br>40.0<br>56300<br>21.7<br>35.7 |   | 67.9%. 72x60L 24.7%. NC 46%. 46%. 250L 31.4%. 66.8%. 29.6%. 29.6%. 20.2% |           |

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#### **VOLATILE DATA CON'T**

Sample SC-CC9 was analyzed at a dilution factor of 100 and sample SC-DC-COMP1 was analyzed at a dilution factor of 10 due to high levels of non-target compounds. Upon laboratory review it was discovered that these samples were over-diluted. As a result they were both re-analyzed outside of holding time at a dilution factor of 1.0. Both sets of data were reported.

Samples SC-CC9 MS and SC-CC9 SD were analyzed outside of holding time.

The initial calibration standard curve analyzed on 07/30/2001 exhibited a %RSD of 4 target compounds greater than 15%. However, the mean RSD of all compounds is 8.43%.

#### PCB DATA

Samples SC-CC9, SC-CC9 MS, and SC-CC9 SD were analyzed at a dilution factor of 10 due to high levels of target compounds. As a result all surrogates and spikes were diluted out.

Sample SC-CC10 was analyzed at a dilution factor of 10000 due to high levels of target compounds. As a result all surrogates were diluted out.

Samples SC-CC11, SC-CC12, SC-CC13, and SC-COMP1 were analyzed at a dilution factor of 5000 due to high levels of target compounds. As a result all surrogates were diluted out.

Sample SC-LS-001 was analyzed at a dilution factor of 100 due to high levels of target compounds. As a result all surrogates were diluted out.

Sample SC-DC-COMP1 exhibited surrogate recovery result above quality control limits for Tetrachloro-m-xylene. However, the sample was compliant for Decachlorobiphenyl.

#### METALS DATA

The results of soil samples have been corrected for percent solids and are reported on a dry weight basis.

Sample SC-CC9 MS exhibited spike recovery results below quality control limits for Antimony and Lead and above quality control limits for Merchily. Sample SC-CC9 SD exhibited spike recovery results below quality control limits for Antimony and above quality control limits for Merchy. However, the Laboratory Fortified Blank was compliant.

The following samples were diluted at their indicated dilution factor due to the original results exceeding the linear range of the curves:



#### METALS DATA CON'T

| Sample ID | Mercury | Thallium | Antimony | Selenium | Iron | Sodium | Zinc |
|-----------|---------|----------|----------|----------|------|--------|------|
| SC-CC9    | 100     | 10       | 10       | 10       | 10   | -      | -    |
| SC-CC9 MS | 50      | 10       | 10       | 10 -     | 100  |        | •    |
| SC-CC9 SD | 100     | 10       | 10       | 10       | 100  |        |      |
| SC-CC10   | 100     | -        | -        |          | 100  | •      | •    |
| SC-CC11   | 100     | 10       | -        | 10       | 100  | -      | -    |
| SC-CC12   | -       | 10       | -        | 10       | 10   | 10     | •    |
| SC-CC13   | 10      | 20       | •        | -        | 20   | 20     | -    |
| SC-COMP1  | 100     | 10       | -        | -        | 10   | 10     | -    |
| SC-LS-001 | 100     | 10       | -        | -        | 10   | -      | 10   |

#### WET CHEMISTRY DATA

The relative percent difference (RPD) for spike recovery between samples SC-CC9 MS and SC-CC9 SD (A1694201) was outside quality control limits for Hexavalent Chromium. However, the individual recovery results were compliant. Sample SC-CC9 SD (A1694201F1) exhibited spike recovery results below quality control limits for Hexavalent Chromium. The relative percent difference (RPD) for spike recovery between the samples was outside quality control limits for Hexavalent Chromium. This can be attributed to sample matrix interference.

Sample SC-CC12 was analyzed at a dilution factor of 10 for Hexavalent Chromium due to the original result exceeding the linear range of the curve.



STL Buffalo

"I certify that this data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or her designee, as verified by the following signature."

"The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety."

## ROY F WESTON COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

| Contract: NY99-220               |  |   | SDG No.: A01-6942                                       |
|----------------------------------|--|---|---|
| Lab Code:                        | STL BFLO Case No.:   |   | SAS No.:  |
| SOW No.:                         | SW846 3RD ED   |   |   |
|                                  | Sample ID.   | Lab Sample No.  |   |
|                                  | SC-CC10  | A1694202  | _   |
|                                  | SC-CC11  | A1694203  | <del></del> ,   |
|                                  | SC-CC12  | A1694204  | <del></del>   |
|                                  | sc-cc13  | A1694205  | _   |
|                                  | SC-CC9   | A1694201  | ·   |
|                                  | SC-CC9 MS  | A1694201S   | _   |
|                                  | SC-CC9 SD  | A1694201SD  | <del></del>   |
|                                  | SC-COMP1   | A1694206  | <del></del>   |
|                                  | SC-DC-COMP1  | A1694208  |   |
|                                  | SC-LS-001  | A1694207  |   |
|                                  |  |   | •   |
| Were ICP                         | interelement corrections applied?  |   | Yes/No YES  |
| Were ICP                         | background corrections applied?  |   | Yes/No YES  |
| If                               | yes-were raw data generated before plication of background corrections?  |   | Yes/No NO   |
| app                              | arcation of background corrections:  |   | 165/110 110   |
| Comments                         | 3:   |   |   |
|                                  |  |   |   |
|                                  |  |   |   |
|                                  |  |   |   |
|                                  |  |   |   |
| contract<br>above. I<br>computer | y that this data package is in compliant, both technically and for completeness, Release of the data contained in this harreadable data submitted on floppy diskers the Manager's designee, as verified by | for other than the co<br>ardcopy data package an<br>atte has been authorize | enditions detailed<br>ad in the<br>ad by the Laboratory |
|                                  |  |   |   |
| Signature                        | : Hooperik for Nam   | ne: <u>Susan L. Tinsmit</u>   | ch  |
| Date:                            | )()8/27/2001 Tit   | le: Laboratory Direc  | tor   |

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### INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

|         | •    |  |
|---------|------|--|
| SC-CC10 | SOIL |  |

Contract: NY99-220

Lab Code: STL BFLO

Case No.:

SAS No.:

SDG NO.:

A01-6942

Matrix (soil/water):

SOIL

Lab Sample ID: AD114111

-

Level (low/med):

LOW

Date Received: 7/21/01

% Solids: 84

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C  | Q    | М  |
|-----------|-----------|---------------|----|------|----|
| 7429-90-5 | Aluminum  | 904           |    | N    | P  |
| 7440-36-0 | Antimony  | 11.4          | U  | иТ   | P  |
| 7440-38-2 | Arsenic   | 40.3          |    |      | P  |
| 7440-39-3 | Barium    | 9.9           | 1  | ]    | P  |
| 7440-41-7 | Beryllium | 0.57          | ט  | 1    | P  |
| 7440-43-9 | Cadmium   | 11.1          |    | 17   | P  |
| 7440-70-2 | Calcium   | 356           | T. | ]    | P  |
| 7440-47-3 | Chromium  | 230           |    | 1    | P  |
| 7440-48-4 | Cobalt    | 41.3          | T  |      | P  |
| 7440-50-8 | Copper    | 621           |    |      | P  |
| 7439-89-6 | Írón      | 554000        | Ī  |      | P  |
| 7439-92-1 | Lead      | 49.1          |    | иТ   | P  |
| 7439-95-4 | Magnesium | 163           | Ī  |      | P  |
| 7439-96-5 | Manganese | 1740          | 1  | EJ.  | P  |
| 7440-02-0 | Nickel    | 162           | I  |      | P  |
| 7440-09-7 | Potassium | 228           | ט  |      | P  |
| 7782-49-2 | Selenium  | 7.4           | 1  | 14-R | P  |
| 7439-97-6 | Mercury   | 28.2          |    |      | cv |
| 7440-22-4 | Silver    | 1.1           | U  | ]    | P  |
| 7440-23-5 | Sodium    | 633           |    |      | P  |
| 7440-28-0 | Thallium  | 115           | 1  | 1.3  | P  |
| 7440-62-2 | Vanadium  | 2.3           | T  | 1    | P  |
| 7440-66-6 | Zinc      | 130           | Ī  | EJ   | P  |

| Color Before: | BROWN  | Clarity Before: | CLOUDY | Texture:   | PAINT |
|---------------|--------|-----------------|--------|------------|-------|
| Color After:  | YELLOW | Clarity After:  | CLOUDY | Artifacts: |       |
| Comments:     |        |                 |        |            |       |
|               |        |                 |        |            |       |

## **INORGANIC ANALYSIS DATA SHEET**

SAMPLE NO.

|  |  | TCLP | SC-CC10 |
|--|--|------|---------|
|--|--|------|---------|

Contract: NY99-220

Lab Code: STL BFLO

Case No.:

LOW

SAS No.:

SDG NO.: A01-6942

Matrix (soil/water):

Level (low/med):

WATER

Lab Sample ID: AD114143

Date Received: 7/21/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte  | Concentration | C   | ō | M. |
|-----------|----------|---------------|-----|---|----|
| 7440-38-2 | Arsenic  | 7.0           | U   |   | P  |
| 7440-39-3 | Barium   | 374           |     |   | P  |
| 7440-43-9 | Cadmium  | 2.0           | T   | l | P  |
| 7440-47-3 | Chromium | 17.0          | Ī   | 1 | P  |
| 7439-92-1 | Lead     | 10.0          | U   |   | P  |
| 7782-49-2 | Selenium | 10.0          | טֹן | ] | P  |
| 7439-97-6 | Mercury  | 0.200         | ט   | J | cv |
| 7440-22-4 | Silver   | 3.0           | ט   | l | P  |

| Color  | Before: | COLORLESS | Clarity Before: | CLEAR | Texture:   | NONE |
|--------|---------|-----------|-----------------|-------|------------|------|
| Color  | After:  | COLORLESS | Clarity After:  | CLEAR | Artifacts: |      |
| Commen | its:    |           |                 |       | • •        |      |
|        |         |           |                 |       |            |      |

#### **INORGANIC ANALYSIS DATA SHEET**

| SAMPLE | NO |
|--------|----|
|--------|----|

|         |      | <br> |
|---------|------|------|
| 00 0011 | CATT |      |
| SC-CC11 | SOTT |      |
|         |      |      |
| ł.      |      |      |

Contract: NY99-220

Lab Code: STL BFLO

Case No.:

SAS No.:

SDG NO.: A01-6942

Matrix (soil/water):

SOIL

Lab Sample ID: AD114112

Level (low/med):

LOW

Date Received: 7/21/01

% Solids: 62

Concentration Units (ug/L or mg/kg dry weight): MG/KG

|           |           | the state of the s |   |    |    |
|-----------|-----------|--|---|----|----|
| CAS No.   | Analyte   | Concentration  | C | Q  | М  |
| 7429-90-5 | Aluminum  | 655  |   | N  | P  |
| 7440-36-0 | Antimony  | 24.2   | 1 | NJ | P  |
| 7440-38-2 | Arsenic   | 53.3   | 1 |    | P  |
| 7440-39-3 | Barium    | 34.4   |   |    | P  |
| 7440-41-7 | Beryllium | 0.82   | ש |    | P  |
| 7440-43-9 | Cadmium   | 8.1  |   |    | P  |
| 7440-70-2 | Calcium   | 3180   | 1 |    | P  |
| 7440-47-3 | Chromium  | 442  | 1 | 1  | P  |
| 7440-48-4 | Cobalt    | 60.0   | 1 | 1  | P  |
| 7440-50-8 | Copper    | 895  | Ī |    | P  |
| 7439-89-6 | Iron      | 618000   | 1 |    | P  |
| 7439-92-1 | Lead      | 116  | 1 | иЛ | ₽  |
| 7439-95-4 | Magnesium | 1120   | 1 |    | P  |
| 7439-96-5 | Manganese | 2710   | Ī | E  | P  |
| 7440-02-0 | Nickel    | 248  | 1 |    | P  |
| 7440-09-7 | Potassium | 330  | ט |    | P  |
| 7782-49-2 | Selenium  | 49.5   | ש | N  | P  |
| 7439-97-6 | Mercury   | 62.9   | 1 | 4  | CV |
| 7440-22-4 | Silver    | 1.6  | ט |    | P  |
| 7440-23-5 | Sodium    | 2870   |   |    | Р  |
| 7440-28-0 | Thallium  | 290  |   | 13 | P  |
| 7440-62-2 | Vanadium  | 20.4   | 1 | ]  | P  |
| 7440-66-6 | Zinc      | 320  |   | EJ | P  |
|           |           |  |   |    |    |

| Color  | Before:     | BROWN  | Clarity Before: | CLOUDY | Texture:   | PAINT |
|--------|-------------|--------|-----------------|--------|------------|-------|
| Color  | After:      | YELLOW | Clarity After:  | CLOUDY | Artifacts: |       |
| Commer | its:        |        |                 |        |            |       |
|        | <del></del> |        |                 | P      |            |       |

#### **INORGANIC ANALYSIS DATA SHEET**

| SAMPLE | NO |
|--------|----|
|--------|----|

| SC-CC11 | TCLP |  |
|---------|------|--|
|         |      |  |

Contract: NY99-220

Lab Code: STL BFLO

Case No.:

SAS No.:

SDG NO.:

A01-6942

Matrix (soil/water):

Level (low/med):

WATER

Lab Sample ID: AD114144

Date Received: 7/21/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte  | Concentration | C    | Q    | М   |
|-----------|----------|---------------|------|------|-----|
| 7440-38-2 | Arsenic  | 7.0           | U    |      | P   |
| 7440-39-3 | Barium   | 657           |      |      | P   |
| 7440-43-9 | Cadmium  | 2.2           | 1 1  | -    | P   |
| 7440-47-3 | Chromium | 254           | 1. 1 |      | P   |
| 7439-92-1 | Lead     | 10.0          | ן ט  |      | P   |
| 7782-49-2 | Selenium | 10.0          | U    |      | P   |
| 7439-97-6 | Mercury  | 1.7           | 1 1  |      | cv  |
| 7440-22-4 | Silver   | 3.0           | ט    | 7215 | l P |

| Color Before: | YELLOW    | Clarity Before: | CLEAR | Texture:   | NONE |
|---------------|-----------|-----------------|-------|------------|------|
| Color After:  | COLORLESS | Clarity After:  | CLEAR | Artifacts: |      |
| Comments:     |           |                 | **    |            |      |
| ·             |           |                 |       |            |      |

#### **INORGANIC ANALYSIS DATA SHEET**

| 031 | m   | T 73 | NO |
|-----|-----|------|----|
| SA  | ME. | -    | NO |

| SC-CC12 SO | İL |
|------------|----|
|------------|----|

Contract: NY99-220

Lab Code: STL BFLO

Case No.:

SAS No.:

SDG NO.:

A01-6942

Matrix (soil/water):

SOIL

Lab Sample ID: AD114113

Level (low/med):

Date Received: 7/21/01

% Solids: 71

Concentration Units (ug/L or mg/kg dry weight): MG/KG

|           |           |               |    |          | ·  |
|-----------|-----------|---------------|----|----------|----|
| CAS No.   | Analyte   | Concentration | C  | Q        | Ж  |
| 7429-90-5 | Aluminum  | 188           | İ  | N        | P  |
| 7440-36-0 | Antimony  | 210           |    | N        | P  |
| 7440-38-2 | Arsenic   | 26.8          |    | 1        | P  |
| 7440-39-3 | Barium    | 5.7           | 1  |          | P  |
| 7440-41-7 | Beryllium | 0.71          | ט  | 1:       | P  |
| 7440-43-9 | Cadmium   | 4.8           | 1  | 1        | P  |
| 7440-70-2 | Calcium   | 820           |    | 1        | P  |
| 7440-47-3 | Chromium  | 289           |    |          | P  |
| 7440-48-4 | Cobalt    | 40.3          | 1  | 1        | P  |
| 7440-50-8 | Copper    | 623           |    |          | P  |
| 7439-89-6 | Iron      | 461000        | 1  |          | P  |
| 7439-92-1 | Lead      | 26.8          |    | N J      | P  |
| 7439-95-4 | Magnesium | 248           | 1  |          | P  |
| 7439-96-5 | Manganese | 1560          | 1  | EJ       | P  |
| 7440-02-0 | Nickel    | 156           | 1  | 1        | P  |
| 7440-09-7 | Potassium | 286           | שׁ | l        | P  |
| 7782-49-2 | Selenium  | 42.9          | ט  | N        | P  |
| 7439-97-6 | Mercury   | 0.775         | 1  | 1        | cv |
| 7440-22-4 | Silver    | 1.4           | [ט | ]        | P  |
| 7440-23-5 | Sodium    | 142000        |    | <u> </u> | P  |
| 7440-28-0 | Thallium  | 188           |    | IT       | P  |
| 7440-62-2 | Vanadium  | 4.4           | Ī  |          | P  |
| 7440-66-6 | Zinc      | 53.6          | 1  | EJ       | P  |

| Color Before: | BROWN  | Clarity Before: | CLOUDŸ | Texture:   | SILT |
|---------------|--------|-----------------|--------|------------|------|
| Color After:  | YELLOW | Clarity After:  | CLOUDY | Artifacts: |      |
| Comments:     |        |                 |        |            |      |
|               |        |                 |        |            |      |

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#### **INORGANIC ANALYSIS DATA SHEET**

| ~ ~  | 200 | 7 77   | NO |   |
|------|-----|--------|----|---|
| 35 A | MP  | 1 . P. | MC | _ |
|      |     |        |    |   |

| SC-CC12 | TCLP |
|---------|------|
|         |      |

Contract: NY99-220

Lab Code: STL BFLO

Case No.:

SAS No.:

SDG NO.:

A01-6942

Matrix (soil/water):

WATER

Lab Sample ID: AD114145

Level (low/med):

LOW

Date Received: 7/21/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte  | Concentration | c   | Q | М   |
|-----------|----------|---------------|-----|---|-----|
| 7440-38-2 | Arsenic  | 84.0          | +   | , | P   |
| 7440-39-3 | Barium   | 544           |     |   | P   |
| 7440-43-9 | Cadmium  | 1.0           | u   |   | P   |
| 7440-47-3 | Chromium | 2570          |     |   | P   |
| 7439-92-1 | Lead     | 10.0          | ט   |   | . P |
| 7782-49-2 | Selenium | 10.0          | ט   |   | P   |
| 7439-97-6 | Mercury  | 0.413         | 1 1 | 7 | cv  |
| 7440-22-4 | Silver   | 3.0           | ט   |   | P   |

| Color Before: | ORANGE | Clarity Before: | CLOUDY | Texture:   | NONE |
|---------------|--------|-----------------|--------|------------|------|
| Color After:  | YELLOW | Clarity After:  | CLOUDY | Artifacts: |      |
| Comments:     |        |                 |        |            |      |
| <u> </u>      |        |                 |        |            |      |

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#### INORGANIC ANALYSIS DATA SHEET

| SAMPLE NO | S | A | MP | LE | N | 0 |
|-----------|---|---|----|----|---|---|

| SC-CC13 | SOIL |
|---------|------|
|         |      |

Contract: NY99-220

Lab Code: STL BFLO

Case No.:

SAS No.:

SDG NO.:

A01-6942

Matrix (soil/water):

SOIL

Lab Sample ID: AD114114

\_\_\_\_

Level (low/med):

LOW

Date Received: 7/21/01

% Solids: 68

Concentration Units (ug/L or mg/kg dry weight):

MG/KG

| CAS No.   | Analyte   | Concentration | C  | Q        | М  |
|-----------|-----------|---------------|----|----------|----|
| 7429-90-5 | Aluminum  | 587           | 1  | N        | P  |
| 7440-36-0 | Antimony  | 272           | 1  | NJ       | P  |
| 7440-38-2 | Arsenic   | 18.0          | 1  | 1        | P  |
| 7440-39-3 | Barium    | 20.8          | Ī  | 1        | P  |
| 7440-41-7 | Beryllium | 0.77          | טן |          | P  |
| 7440-43-9 | Cadmium   | 3.5           | T  |          | P  |
| 7440-70-2 | Calcium   | 3620          |    |          | P  |
| 7440-47-3 | Chromium  | 390           | 1  | 1        | P  |
| 7440-48-4 | Cobalt    | 30.3          | 1  |          | P  |
| 7440-50-8 | Copper    | 564           | 1  | T        | P  |
| 7439-89-6 | Iron      | 288000        | 1  | <u>l</u> | P  |
| 7439-92-1 | Lead      | 51.1          | 1  | NJ       | P  |
| 7439-95-4 | Magnesium | 931           |    |          | P  |
| 7439-96-5 | Manganese | 1590          | 1  | EJ       | P  |
| 7440-02-0 | Nickel    | 166           | 1  | I.       | P  |
| 7440-09-7 | Potassium | 309           | ש  |          | P  |
| 7782-49-2 | Selenium  | 4.6           | ט  | N        | P  |
| 7439-97-6 | Mercury   | 2.8           |    |          | cv |
| 7440-22-4 | Silver    | 1.5           | ט  | 1        | P  |
| 7440-23-5 | Sodium    | 125000        |    |          | P  |
| 7440-28-0 | Thallium  | 185           | טן | <u> </u> | P  |
| 7440-62-2 | Vanadium  | 3.8           | Π  | l        | P  |
| 7440-66-6 | Zinc      | 192           |    | EJ       | P  |

| Color Before | BROWN  | Clarity Before: | CLOUDY | Texture:   | SILT |
|--------------|--------|-----------------|--------|------------|------|
| Color After: | YELLOW | Clarity After:  | CTONDA | Artifacts: |      |
| Comments:    |        |                 |        |            |      |
|              | •      |                 |        |            |      |

#### INORGANIC ANALYSIS DATA SHEET

| SAMPLE | NO |
|--------|----|
|--------|----|

SC-CC13 TCLP

| Con | tra | ct | : | NY9  | ġ        | 220 |
|-----|-----|----|---|------|----------|-----|
|     |     | ~~ | • | 44.2 | <b>.</b> | 220 |

Lab Code: STL BFLO

Case No.:

SAS No.:

SDG NO.: A01-6942

Matrix (soil/water):

WATER

Lab Sample ID: AD114146

Level (low/med):

LOW

Date Received: 7/21/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte  | Concentration | C  | Q | М  |
|-----------|----------|---------------|----|---|----|
| 7440-38-2 | Arsenic  | 8.7           |    |   | P  |
| 7440-39-3 | Barium   | 244           | T  |   | P  |
| 7440-43-9 | Cadmium  | 1.0           | ט  |   | P  |
| 7440-47-3 | Chromium | 711           |    | ĺ | P  |
| 7439-92-1 | Lead     | 10.0          | טן | 1 | P  |
| 7782-49-2 | Selenium | 10.0          | טן | 1 | P  |
| 7439-97-6 | Mercury  | 0.358         | T  | J | CV |
| 7440-22-4 | Silver   | 3.0           | ט  | 1 | P  |

| Color 1 | Before: | ORANGE   | Clarity Before: | CLOUDY | Texture:   | NONE |
|---------|---------|----------|-----------------|--------|------------|------|
| Color 1 | After:  | YELLOW   | Clarity After:  | CLOUDY | Artifacts: |      |
| Comment | ts:     | <u> </u> |                 |        |            |      |
|         |         |          |                 |        |            |      |

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### INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

Contract: NY99-220

Lab Code: STL BFLO

Case No.:

SAS No.:

SDG NO.: A01-6942

Matrix (soil/water):

SOIL

Lab Sample ID: AD114115

Level (low/med):

Date Received: 7/21/01

% Solids: 77

Concentration Units (ug/L or mg/kg dry weight):

MG/KG

| CAS No.   | Analyte   | Concentration | C | Q   | м  |
|-----------|-----------|---------------|---|-----|----|
| 7429-90-5 | Aluminum  | 496           | 1 | N   | P  |
| 7440-36-0 | Antimony  | 152           |   | NJ  | P  |
| 7440-38-2 | Arsenic   | 26.1          | 1 | Ţ   | P  |
| 7440-39-3 | Barium    | 15.0          |   | ]   | P  |
| 7440-41-7 | Beryllium | 0.65          | U | 1   | P  |
| 7440-43-9 | Cadmium   | 3.5           | Ī |     | P  |
| 7440-70-2 | Calcium   | 1590          |   | ]   | P  |
| 7440-47-3 | Chromium  | 247           | 1 | 1   | P  |
| 7440-48-4 | Cobalt    | 27.3          | Ī | 1   | P  |
| 7440-50-8 | Copper    | 445           |   |     | P  |
| 7439-89-6 | Iron      | 387000        |   |     | P  |
| 7439-92-1 | Lead      | 53.7          | 1 | N J | P  |
| 7439-95-4 | Magnesium | 529           |   | J   | P  |
| 7439-96-5 | Manganese | 1340          | Ī | E   | P  |
| 7440-02-0 | Nickel    | 138           | 1 |     | P  |
| 7440-09-7 | Potassium | 260           | ט | ]   | P  |
| 7782-49-2 | Selenium  | 3.9           | ש | N . | P  |
| 7439-97-6 | Mercury   | 12.7          | ט | 17  | cv |
| 7440-22-4 | Silver    | 1.3           | U |     | P  |
| 7440-23-5 | Sodium    | 71600         |   | ]   | P  |
| 7440-28-0 | Thallium  | 157           | 1 |     | P  |
| 7440-62-2 | Vanadium  | 6.5           |   |     | P  |
| 7440-66-6 | Zinc      | 181           |   | EJ  | P  |

| Color Before: | BROWN  | Clarity Before: | CLOUDY | Texture:   | PAINT |
|---------------|--------|-----------------|--------|------------|-------|
| Color After:  | AETTOM | Clarity After:  | CLOUDY | Artifacts: |       |
| Comments:     |        |                 |        |            |       |
| ·             |        |                 |        |            |       |

#### -1-

#### INORGANIC ANALYSIS DATA SHEET

| SA | MPLE | NO |
|----|------|----|

| SC-COMP1 | TCLP |
|----------|------|

Contract: NY99-220

Lab Code: STL BFLO

Case No.:

SAS No.:

SDG NO.:

A01-6942

Matrix (soil/water):

Level (low/med):

WATER

LOW

Lab Sample ID: AD114147

Date Received: 7/21/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte  | Concentration | c   | Q     | М  |
|-----------|----------|---------------|-----|-------|----|
| 7440-38-2 | Arsenic  | 7.0           | U   |       | P  |
| 7440-39-3 | Barium   | 589           | 1   |       | P  |
| 7440-43-9 | Cadmium  | 1.0           | ט   |       | P  |
| 7440-47-3 | Chromium | 444           | 1 1 | · · · | P  |
| 7439-92-1 | Lead     | 10.0          | ט   |       | P  |
| 7782-49-2 | Selenium | 10.0          | ע   |       | P  |
| 7439-97-6 | Mercury  | 2.2           | 1 1 |       | cv |
| 7440-22-4 | Silver   | 3.0           | ע   |       | P  |

| Color Before: | AETTOM | Clarity Before: | CTOUDA | Texture:   | NONE |
|---------------|--------|-----------------|--------|------------|------|
| Color After:  | YELLOW | Clarity After:  | CLOUDA | Artifacts: |      |
| Comments:     | •      |                 |        |            |      |
| · _           |        |                 |        |            |      |

#### -1-

### INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

| SC-DC | :-COMP1 | SOIL |
|-------|---------|------|

Contract: NY99-220

Lab Code: STL BFLO

Case No.:

SAS No.:

SDG NO.:

A01-6942

Matrix (soil/water):

SOIL

Lab Sample ID: AD114117

Level (low/med):

Date Received: 7/21/01

% Solids: 74

Concentration Units (ug/L or mg/kg dry weight):

MG/KG

| CAS No.   | Analyte   | Concentration | C | Q   | м  |
|-----------|-----------|---------------|---|-----|----|
| 7429-90-5 | Aluminum  | 10900         |   | N   | P  |
| 7440-36-0 | Antimony  | 25.2          |   | N J | P  |
| 7440-38-2 | Arsenic   | 5.8           | Ī |     | P  |
| 7440-39-3 | Barium    | 67.9          |   | }   | P  |
| 7440-41-7 | Beryllium | 0.71          | ט | 1   | P  |
| 7440-43-9 | Cadmium   | 0.71          | ט | 1   | P  |
| 7440-70-2 | Calcium   | 49900         |   | 1   | P  |
| 7440-47-3 | Chromium  | 4910          | 1 |     | P  |
| 7440-48-4 | Cobalt    | 29.5          |   | 1   | P  |
| 7440-50-8 | Copper    | 22.1          |   | 1   | P  |
| 7439-89-6 | Iron      | 21900         |   | 1   | P  |
| 7439-92-1 | Lead      | 1150          | ] | N   | P  |
| 7439-95-4 | Magnesium | 11000         |   |     | P  |
| 7439-96-5 | Manganese | _266          |   | EJ  | P  |
| 7440-02-0 | Nickel    | 131           |   | }   | P  |
| 7440-09-7 | Potassium | 992           |   | 1   | P  |
| 7782-49-2 | Selenium  | 4.2           | ט | N   | P  |
| 7439-97-6 | Mercury   | 0.134         |   |     | cv |
| 7440-22-4 | Silver    | 1.4           | ט |     | P  |
| 7440-23-5 | Sodium    | 1170          |   |     | P  |
| 7440-28-0 | Thallium  | 8.5           | ט | 1   | P  |
| 7440-62-2 | Vanadium  | 150           |   |     | P  |
| 7440-66-6 | Zinc      | 96.1          | ı | EJ  | P  |

| Color Before: | BROWN | Clarity Before: | CLOUDY | Texture:   | CLAY |
|---------------|-------|-----------------|--------|------------|------|
| Color After:  | GRAY  | Clarity After:  | CLOUDY | Artifacts: |      |
| Comments:     |       |                 |        | 1          |      |
| · <u></u>     |       |                 |        |            |      |

## **INORGANIC ANALYSIS DATA SHEET**

| SAMPLE NO | SAMPLE I | ON |
|-----------|----------|----|
|-----------|----------|----|

| SC-DC-COMP1 | TCLP |
|-------------|------|
|-------------|------|

Contract: NY99-220

Lab Code: STL BFLO

Case No.:

SAS No.:

SDG NO.: A01-6942

Matrix (soil/water):

WATER

Lab Sample ID: AD114149

Date Received: 7/21/01

Level (low/med):

LOW

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte  | Concentration | C  | Q  | М  |
|-----------|----------|---------------|----|--|----|
| 7440-38-2 | Arsenic  | 7.0           | U  | <del>                                     </del> | P  |
| 7440-39-3 | Barium   | 402           |    | 1  | P  |
| 7440-43-9 | Cadmium  | 1.0           | ט  | 1  | P  |
| 7440-47-3 | Chromium | 11000         | T  |  | P  |
| 7439-92-1 | Lead     | 10.0          | טן |  | P  |
| 7782-49-2 | Selenium | 10.0          | ע  | 1  | P  |
| 7439-97-6 | Mercury  | 0.200         | ש  | 13   | cv |
| 7440-22-4 | Silver   | 3.0           | ש  | l  | P  |

| Color  | Before:      | YELLOW    | Clarity Before: | CLEAR | Texture:   | NONE |
|--------|--------------|-----------|-----------------|-------|------------|------|
| Color  | After:       | COLORLESS | Clarity After:  | CLEAR | Artifacts: |      |
| Commen | ts:          |           |                 |       |            |      |
|        | <del>-</del> |           |                 |       |            |      |

#### -1-INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

Contract: NY99-220

Lab Code: STL BFLO

Case No.:

SAS No.:

SDG NO.:

A01-6942

Matrix (soil/water):

SOIL

Lab Sample ID: AD114116

\_\_\_\_

Level (low/med):

LOW

Date Received: 7/21/01

% Solids: 72

Concentration Units (ug/L or mg/kg dry weight):

MG/KG

| CAS No.   | Analyte   | Concentration | c  | Q   | М  |
|-----------|-----------|---------------|----|-----|----|
| 7429-90-5 | Aluminum  | 11900         | +  | N   | P  |
| 7440-36-0 | Antimony  | 53.0          | T  | N T | P  |
| 7440-38-2 | Arsenic   | 26.6          | Π  |     | P  |
| 7440-39-3 | Barium    | 238           |    |     | P  |
| 7440-41-7 | Beryllium | 0.71          | טן | 1   | P  |
| 7440-43-9 | Cadmium   | 4.5           |    |     | P  |
| 7440-70-2 | Calcium   | 22500         |    | 1   | P  |
| 7440-47-3 | Chromium  | 4220          | Ī  | 1   | P  |
| 7440-48-4 | Cobalt    | 72.2          | J  | Ī   | P  |
| 7440-50-8 | Copper    | 497           | T  | 1   | P  |
| 7439-89-6 | Iron      | 343000        | 1  | i T | P  |
| 7439-92-1 | Lead      | 410           | 1  | N J | P  |
| 7439-95-4 | Magnesium | 13100         |    |     | P  |
| 7439-96-5 | Manganese | 1360          | T  | EJ  | P  |
| 7440-02-0 | Nickel    | 343           | T  | l   | P  |
| 7440-09-7 | Potassium | 282           | טן | Ī   | P  |
| 7782-49-2 | Selenium  | 4.2           | שׁ | N   | P  |
| 7439-97-6 | Mercury   | 18.6          |    |     | cv |
| 7440-22-4 | Silver    | 1.4           | U  | 1   | P  |
| 7440-23-5 | Sodium    | 577           | Ī. |     | P  |
| 7440-28-0 | Thallium  | 140           |    | TJ  | P  |
| 7440-62-2 | Vanadium  | 547           | Τ  | 1   | P  |
| 7440-66-6 | Zinc      | 1180          | Τ  | EJ  | P  |

| Color   | Before: | BROWN | Clarity Before: | CLOUDY | Texture:   | PAINT |
|---------|---------|-------|-----------------|--------|------------|-------|
| Color : | After:  | GREEN | Clarity After:  | CTONDA | Artifacts: |       |
| Commen  | ts:     |       |                 |        |            |       |
|         |         |       |                 |        |            |       |

## **INORGANIC ANALYSIS DATA SHEET**

| SA | MPLE | NO. |
|----|------|-----|
|    |      |     |

| SC-LS-001 | TCLP |
|-----------|------|
| • 1       |      |

Contract: NY99-220

Lab Code: STL BFLO

Case No.:

SAS No.:

SDG NO.: A01-6942

Matrix (soil/water):

WATER

Lab Sample ID: AD114148

Level (low/med):

LOW

Date Received: 7/21/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte  | Concentration | c | Q  | м  |
|-----------|----------|---------------|---|----|----|
| 7440-38-2 | Arsenic  | 7.0           | U |    | P  |
| 7440-39-3 | Barium   | 820           | Τ | ]  | P  |
| 7440-43-9 | Cadmium  | 3.6           | 1 |    | P  |
| 7440-47-3 | Chromium | 44.2          | 1 | 1  | P  |
| 7439-92-1 | Lead     | 10.0          | ט | 1  | P  |
| 7782-49-2 | Selenium | 10.0          | ט | 1  | P  |
| 7439-97-6 | Mercury  | 0.200         | ט | 13 | CV |
| 7440-22-4 | Silver   | 3.0           | ט |    | P  |

| Color Before: | COLORLESS | Clarity Before: | CLEAR | Texture:   | NONE |
|---------------|-----------|-----------------|-------|------------|------|
| Color After:  | COLORLESS | Clarity After:  | CLEAR | Artifacts: |      |
| Comments:     |           |                 |       |            |      |
|               |           |                 |       |            |      |

#### -1-

## INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

| SC-CC9 | SOIL | • |
|--------|------|---|
|        |      |   |

Contract: NY99-220

Lab Code: STL BFLO

Case No.:

SAS No.:

SDG NO .:

A01-6942

Matrix (soil/water):

SOIL

Lab Sample ID: AD114108

Level (low/med):

Date Received: 7/21/01

% Solids: 73

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | c  | Q              | М  |
|-----------|-----------|---------------|----|----------------|----|
| 7429-90-5 | Aluminum  | 478           | 1  | X <sup>a</sup> | P  |
| 7440-36-0 | Antimony  | 137           | U  | И              | P  |
| 7440-38-2 | Arsenic   | 48.5          | ]  | I              | P  |
| 7440-39-3 | Barium    | 16.2          | 1  | l .            | P  |
| 7440-41-7 | Beryllium | 0.68          | טן | 1              | P  |
| 7440-43-9 | Cadmium   | 12.2          | 1  | J              | P  |
| 7440-70-2 | Calcium   | 137           | ש  | <u> </u>       | P  |
| 7440-47-3 | Chromium  | 229           | -  | 1              | P  |
| 7440-48-4 | Cobalt    | 40.1          | 1  | J              | P  |
| 7440-50-8 | Copper    | 459           |    |                | P  |
| 7439-89-6 | Iron      | 759000        |    | 1              | P  |
| 7439-92-1 | Lead      | 66.0          |    | L M            | P  |
| 7439-95-4 | Magnesium | 213           | 1  |                | P  |
| 7439-96-5 | Manganese | 2550          | 1  | EJ             | P  |
| 7440-02-0 | Nickel    | 203           |    | 1              | P  |
| 7440-09-7 | Potassium | 273           | ט  |                | P  |
| 7782-49-2 | Selenium  | 41.0          | ט  | И              | P  |
| 7439-97-6 | Mercury   | 13.7          | ט  | 15             | cv |
| 7440-22-4 | Silver    | 1.4           | ש  |                | P  |
| 7440-23-5 | Sodium    | 193           |    | Γ.             | P  |
| 7440-28-0 | Thallium  | 286           | 1  | 17             | P  |
| 7440-62-2 | Vanadium  | 6.1           |    |                | .P |
| 7440-66-6 | Zinc      | 311           |    | EJ             | P  |

| Color Before | : BROWN | Clarity Before: | CLOUDY | Texture:   | PAINT |
|--------------|---------|-----------------|--------|------------|-------|
| Color After: | YELLOW  | Clarity After:  | CLOUDY | Artifacts: |       |
| Comments:    |         |                 | No.    |            |       |
| -            |         |                 |        | 4          |       |

# INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

|        | •      |   |  |
|--------|--------|---|--|
| 88 888 | MAT TO |   |  |
| SC-CC9 | TCLP   | - |  |

Contract: NY99-220

Lab Code: STL BFLO

Case No.:

SAS No.:

SDG NO.:

A01-6942

Matrix (soil/water):

WATER

Lab Sample ID: AD114140

Level (low/med):

Date Received: 7/21/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte  | Concentration | C  | Q      | М  |
|-----------|----------|---------------|----|--------|----|
| 7440-38-2 | Arsenic  | 7.0           | Ü  |        | P  |
| 7440-39-3 | Barium   | 424           | 1  | l      | P  |
| 7440-43-9 | Cadmium  | 2.0           | 1  | 1      | P  |
| 7440-47-3 | Chromium | 5.1           |    | ļ      | P  |
| 7439-92-1 | Lead     | 10.0          | טן | ]      | P  |
| 7782-49-2 | Selenium | 10.0          | U  |        | P  |
| 7439-97-6 | Mercury  | 0.200         | שן | T<br>T | cv |
| 7440-22-4 | Silver   | 3.0           | U  | 1      | P  |

| Color Before | : COLORLESS | Clarity Before: | CLEAR | Texture:   | NONE |
|--------------|-------------|-----------------|-------|------------|------|
| Color After: | COLORLESS   | Clarity After:  | CLEAR | Artifacts: |      |
| Comments:    |             |                 | ,     |            |      |
|              |             |                 |       |            |      |

001426 Client Sample No.

|        | <br> |   |
|--------|------|---|
|        |      |   |
| SC-CC9 |      |   |
| i .    |      | * |
|        |      |   |

Lab Name: STL Buffalo

Contract:

Lab Code: RECNY

Case No.:

SAS No.:

SDG No.: 6942

Matrix (soil/water): SOIL

Lab Sample ID: A1694201

% Solids:

| Parameter Name              | Units of<br>Measure | Result | С | Q | М | Method<br>Number | Analyzed<br>Date |
|-----------------------------|---------------------|--------|---|---|---|------------------|------------------|
| Hexavalent Chromium - Total | MG/KG               | 1.0    | ប |   | A | 7196A            | 07/27/2001       |

| Comments:   | •    |  |  |
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Client Sample No. 430

| Lab Name: STL Buffalo Contract: |           |
|---------------------------------|-----------|
|                                 | to • 6942 |

Matrix (soil/water): SOIL

Lab Sample ID: A1694202

% Solids:

84.4

Date Samp/Recv: <u>07/20/2001</u> <u>07/21/2001</u>

| Parameter Name              | Units of<br>Measure | Result | С | Q | М | Method<br>Number | Analyzed<br>Date |
|-----------------------------|---------------------|--------|---|---|---|------------------|------------------|
| Hexavalent Chromium - Total | MG/KG               | 1690   |   | ゴ | A | 7196A            | 07/27/2001       |

| Comments: | •  |   |  |
|-----------|--|---|--|
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Client Sample No.

|                              | •        |           |   | SC-CC11 |  |
|------------------------------|----------|-----------|---|---------|--|
| Lab Name: <u>STL Buffalo</u> | <b>!</b> | Contract: | · | DC CCII |  |
|                              |          |           |   |         |  |

SAS No.: \_\_\_\_

Lab Code: RECNY

SDG No.: 6942

Matrix (soil/water): SOIL

Lab Sample ID: A1694203

% Solids:

Case No.:

| Parameter Name              | Units of<br>Measure | Result | С | Q | M | Method<br>Number | Analyzed<br>Date |
|-----------------------------|---------------------|--------|---|---|---|------------------|------------------|
| Hexavalent Chromium - Total | MG/KG               | 1.0    | U |   | A | 7196A            | 07/27/2001       |

| Comments: |  |  |             |                                       |  |  |
|-----------|--|--|-------------|---------------------------------------|--|--|
|           |  |  |             |                                       |  |  |
|           |  |  |             | · · · · · · · · · · · · · · · · · · · |  |  |
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|           |  |  | <del></del> |                                       |  |  |

Client Sample No.

| Lab Name: <u>STL Buffa</u> | <u>lo</u> | Contract:       | SC-CC12               |
|----------------------------|-----------|-----------------|-----------------------|
| Lab Code: <u>RECNY</u>     | Case No.: | SAS No.:        | SDG No.: 6942         |
| Matrix (soil/water)        | : SOIL    | Lab Sample ID:  | A1694204              |
| % Solids:                  | _71.4     | Date Samp/Recv: | 07/20/2001 07/21/2001 |

| Parameter Name              | Units of<br>Measure | Result | С | Q | М | Method<br>Number | Analyzed<br>Date |
|-----------------------------|---------------------|--------|---|---|---|------------------|------------------|
| Hexavalent Chromium - Total | MG/KG               | 94400  |   | 7 | A | 7196A            | 07/27/2001       |

| ments: |     |   |  |
|--------|-----|---|--|
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Client Sample No. 433

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|--|---------------------------------------|

Lab Name: STL Buffalo

Contract: \_\_\_\_

Lab Code: RECNY

Case No.:

SAS No.: \_\_\_\_

SDG No.: 6942

Matrix (soil/water): SOIL

Lab Sample ID: A1694205

% Solids:

67.5

|                             | Units of<br>Measure | Result | С | Q | М | Method<br>Number | Analyzed<br>Date |
|-----------------------------|---------------------|--------|---|---|---|------------------|------------------|
| Hexavalent Chromium - Total | MG/KG               | 19900  |   | h | A | 7196A            | 07/27/2001       |

| Comments: |                                       |      |  |
|-----------|---------------------------------------|------|--|
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001434

Client Sample No.

|                              |           | SC-COMP1 |
|------------------------------|-----------|----------|
| Lab Name: <u>STL Buffalo</u> | Contract: |          |

Lab Code: RECNY Case No.: SAS No.: SDG No.: 6942

Matrix (soil/water): SOIL Lab Sample ID: A1694206

% Solids: 76.9 Date Samp/Recv: 07/20/2001 07/21/2001

| Parameter Name              | Units of<br>Measure | Result | С | Q | М | Method<br>Number | Analyzed<br>Date |
|-----------------------------|---------------------|--------|---|---|---|------------------|------------------|
| Hexavalent Chromium - Total | MG/KG               | 2160   |   | - | A | 7196A            | 07/27/2001       |

| Comments:  |   |      |  |  |
|------------|---|------|--|--|
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Client Sample No.

|           | <br> |
|-----------|------|
| SC-LS-001 |      |

Lab Name: SIL Buffalo

Contract:

Lab Code: RECNY

Case No.: \_\_\_\_

SAS No.: \_\_\_\_

SDG No.: 6942\_

Matrix (soil/water): SOIL

Lab Sample ID: A1694207

% Solids:

|                             | Units of<br>Measure | Result | C | Q | м | Method<br>Number | Analyzed<br>Date |
|-----------------------------|---------------------|--------|---|---|---|------------------|------------------|
| Hexavalent Chromium - Total | MG/KG               | 1.0    | Ū |   | A | 7196A            | 07/27/2001       |

| ents: |      |                      |             |          |              |
|-------|------|----------------------|-------------|----------|--------------|
|       |      |                      |             |          |              |
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001436 Client Sample No.

| Í           |  |
|-------------|--|
| 00 00 00001 |  |
| SC-DC-COMP1 |  |
|             |  |
|             |  |

Lab Name: STL Buffalo

Contract: \_

Lab Code: <u>RECNY</u>

Case No.: \_\_\_\_

SAS No.:

SDG No.: 6942

Matrix (soil/water): SOIL

Lab Sample ID: A1694208

% Solids:

<u>73.5</u>

Date Samp/Recv: <u>07/20/2001</u> <u>07/21/2001</u>

| Parameter Name              | Units of<br>Measure | Result | С | Q | М | Method<br>Number | Analyzed<br>Date |
|-----------------------------|---------------------|--------|---|---|---|------------------|------------------|
| Hexavalent Chromium - Total | MG/KG               | 1710   |   | ħ | Α | 7196A            | 07/27/2001       |

| Comments:  |      |   |      |
|------------|------|---|------|
| ,          |      |   |      |
| - <u> </u> | <br> | <br>- 1, 1, <del>2, 4, 11, 12, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14</del> | <br> |
|            |      |   |      |
|            | <br> | <br>  | <br> |

SAMPLE DATA SUMMARY PACKAGE



#### STL Buffalo

#### **SDG NARRATIVE**

Laboratory Name:

STL Buffalo

Laboratory Code:

STL Buffalo

Contract Number:

NY99-220

Sample Identifications:

SC-CC11-COMP

SC-DFCOMP1

SC-DFCOMP1 MS

SC-DFCOMP1 SD

SC-PHD-01

SC-PURH1

SC-PURM1

SC-T01-002

SC-T01-013

00 101 015

SC-T01-0130

SC-T01-043

SC-T01-069

SC-T01-087

SC-T01-103

SC-T02-111

SC-T02-119

SC-T02-154

SC-T02-157

SC-T02-178

SC-T02-194

SC-T03-214

SC-T03-221

SC-T03-224

SC-T03-290

SC-T03-200

SC-T03-325

3C-103-322

SC-T04-333

SC-T04-355

SC-T04-362

SC-T04-402

SC-T04-405

**SC-228** 

SC-229

SC-230

SC-241515

SC-243 (A01-7010)

SC-243 (A01-7011)

SC-493



#### PCB DATA CON'T

Sample SC-493 was analyzed at a dilution factor of 2 due to high levels of target compounds.

Sample SC-PURM1 was analyzed at a dilution factor of 50 due to high levels of target compounds. All surrogates were diluted out.

Sample SC-243 (A1701005) was analyzed at a dilution factor of 100 due to high levels of target compounds. All surrogates were diluted out.

Sample SC-243 (A1701105) was analyzed at a dilution factor of 200 due to high levels of target compounds. All surrogates were diluted out.

Samples SC-228 and SC-229 exhibited surrogate recovery results above quality control limits for Decachlorobiphenyl. However, the samples were compliant for Tetrachloro-m-xylene.

Samples SC-T01-103, SC-T02-119, and SC-T02-119 MS exhibited surrogate recovery results above quality control limits for Tetrachloro-m-xylene. However, the samples were compliant for Decachlorobiphenyl.

Samples SC-T02-119 SD and SC-T03-224 exhibited surrogate recovery results below quality control limits for Decachlorobiphenyl and above quality control limits for Tetrachloro-m-xylene.

The relative percent difference (RPD) for spike recovery between samples SC-PHD-001 MS and SC-PHD-001 SD was above quality control limits for Aroclor 1016. However, the individual recovery results were compliant.

Samples SC-T02-119 MS and SC-T02-119 SD exhibited spike recovery results above quality control limits for Aroclor 1254.

### **METALS DATA**

The results for soil samples have been corrected for percent solids and are reported on a dry weight basis.

Sample SC-DFCOMP1 MS exhibited spike recovery results below quality control limits for Aluminum, Antimony, Barium, Cobalt, Copper, Lead, Magnesium, Manganese, Nickel, Vanadium, and Zinc. The sample also exhibited spike recovery results above quality control limits for Mercury. However, the Laboratory Fortified Blank was compliant.

Sample SC-DFCOMP1 SD exhibited spike recovery results below quality control limits for Aluminum, Antimony, Barium, Copper, Lead, Magnesium, Manganese, Nickel, Vanadium, and Zinc. The sample also exhibited spike recovery results above quality control limits for Mercury. However, the Laboratory Fortified Blank was compliant.



### METALS DATA CON'T

Sample SC-241515 was analyzed at a dilution factor of 5 for Zinc on ICP Run A080101 due to the original results exceeding the linear range of the curve.

Sample SC-493 was analyzed at a dilution factor of 40 for Sodium on ICP Run A080101 due to the original results exceeding the linear range of the curve.

Samples SC-243, SC-243 MS, SC-243 SD were analyzed at a dilution factor of 10 for Sodium on ICP Run B080501 due to the original results exceeding the linear range of the curve.

Sample SC-229 was analyzed at a dilution factor of 50 for Antimony and 50 for Thallinm on ICP/MS Run 010810A. The sample was also analyzed at a dilution factor of 10 for all other elements on ICP Run B080601 due to very strong matrix effects.

Sample SC-PURH1 was analyzed at a dilution factor of 10 for Zinc due to the original result exceeding the linear range of the curve.

Sample SC-PHD-001 was analyzed at a dilution factor of 40 for Zinc due to the original result exceeding the linear range of the curve.

Sample SC-PURM1 was analyzed at a dilution factor of 10 for Zinc, 10 for Iron, and 10 for Sodium due to the original results exceeding the linear range of the curves.

Samples SC-DFCOMP1 MS SC-DFCOMP1 SD were analyzed at a dilution factor of 5 for Mercury due to the original results exceeding the linear range of the curve.

Sample SC-PURM1 was analyzed at a dilution factor of 10 for Mercury due to the original results exceeding the linear range of the curve.

#### WET CHEMISTRY DATA

Sample SC-243 (A1701105) was analyzed at a dilution factor of 2 for Total Hexavalent Chromium due to sample matrix interference.

Sample SC-DFCOMP1 was analyzed outside of holding time requirements for Total Hexavalent Chromium.



STL Buffalo

"I certify that this data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or her designee, as verified by the following signature."

Susan L. Tinsmith

Laboratory Director

Date

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

#### **DATA COMMENT PAGE**

#### **ORGANIC DATA QUALIFIERS**

ND or U Indicates compound was analyzed for, but not detected.

- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- Indicates coelution.
- \* Indicates analysis is not within the quality control limits.

#### **INORGANIC DATA QUALIFIERS**

ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.

- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- K Indicates the post digestion spike recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- M Indicates duplicate injection results exceeded quality control limits.
- W Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- Indicates analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

## ROY F WESTON COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

| Contract: N                                 | TY99-220   | SDG No.: 7010  |  |
|---|--|--|--|
| Lab Code: STI                               | LBFLO Case No.:  |  | SAS No.:   |
| SOW No.:                                    |  | *****  |  |
|   | Sample ID.   | Lab Sample No.   |  |
|   | SC-229   | <u>A1701101</u>  |  |
|   | SC-230   | A1701201   | ·<br><del>·</del>  |
|   | SC-241515  | A1701002   |  |
|   | SC-243   | A1701105   |  |
|   | SC-243MS   | A1701105S  | ·  |
|   | SC-243SD   | A1701105SD   |  |
|   | SC-493   | A1701004   | ·  |
|   | SC-CC11-COMP   | A1701001   |  |
|   | SC-DFCOMP1   | A1701202   |  |
|   | SC-DFCOMP1 MS  | A1701202S  |  |
| If yes-                                     | ckground corrections applied? -were raw data generated before ation of background corrections?   |  | Yes/No YES Yes/No NO   |
|   |  |  |  |
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|   |  |  |  |
| contract, bo<br>above. Rele<br>computer-rea | nat this data package is in complete that technically and for completer ease of the data contained in this dable data submitted on floppy of the Manager's designee, as verifications.   | ess, for other than<br>s hardcopy data pack<br>liskette has been aut | the conditions detailed age and in the horized by the Laboratory |
| Signature:                                  | mi Jan   | Name: Susan L. T.  | insmith  |
| Date:(                                      | 5/29/9   | Title: Laboratory  | Director   |

# ROY F WESTON COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

| o Code: STLBI | 27.7.22  | <del></del>    | SDG No.:     | -           |
|---------------|--|----------------|--------------|-------------|
|               | FLO Case No.:  |                | SAS No.:     |             |
| W No.:        |  |                |              |             |
|               | Sample ID.   | Lab Sample No. |              |             |
|               | SC-DFCOMP1 SD  | A1701202SD     | <del>:</del> |             |
|               | SC-PHD-001   | A1701103       |              |             |
|               | SC-PURH1   | A1701102       |              |             |
|               | SC-PURM1   | A1701104       |              |             |
|               |  |                |              |             |
|               |  |                |              |             |
|               |  |                |              |             |
|               |  | ·              |              |             |
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| •             |  |                |              |             |
| If yes-w      | ground corrections applied?<br>ere raw data generated before |                | Yes/No       | <del></del> |
| applicat      | ion of background corrections?                               |                | Yes/No       | NO          |
| mments:       |  |                |              |             |
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# **INORGANIC ANALYSIS DATA SHEET**

| SAMPLE D    | 10. |                 |
|-------------|-----|-----------------|
| <del></del> |     | <br><del></del> |
| SC-PURM1    |     |                 |

Contract: NY99-220

Lab Code: STLBFLO

Case No.:

SAS No.:

SDG NO.:

7010

Matrix (soil/water):

WATER

Lab Sample ID: AD114156

Level (low/med):

LOW

Date Received: 7/24/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte   | Concentration | C        | Q  | м  |
|-----------|-----------|---------------|----------|----|----|
| 7429-90-5 | Aluminum  | 47800         | 1        | EJ | P  |
| 7440-36-0 | Antimony  | 40.6          | 1        |    | P  |
| 7440-38-2 | Arsenic   | 49.7          | 1        | Z. | P  |
| 7440-39-3 | Barium    | 285           | 1        | EJ | P  |
| 7440-41-7 | Beryllium | 5.0           | שׁ       |    | P  |
| 7440-43-9 | Cadmium   | 8.9           |          | 1  | P  |
| 7440-70-2 | Calcium   | 93900         | 1        | 17 | P  |
| 7440-47-3 | Chromium  | 7600          | 1.       | EJ | P  |
| 7440-48-4 | Cobalt    | 86.6          |          | 13 | P  |
| 7440-50-8 | Copper    | 257           | <u> </u> | 13 | P  |
| 7439-89-6 | Iron      | 736000        | j        | EJ | P  |
| 7439-92-1 | Lead      | 216           | T        | 13 | P  |
| 7439-95-4 | Magnesium | 60800         | Ī        | EJ | P  |
| 7439-96-5 | Manganese | 3190          |          | EJ | P  |
| 7440-02-0 | Nickel    | 289           | Ī        | 13 | P  |
| 7440-09-7 | Potassium | 15100         | Ī        | 13 | P  |
| 7782-49-2 | Selenium  | 19.9          |          | ]  | P  |
| 7439-97-6 | Mercury   | 30.7          | -        | 1  | CV |
| 7440-22-4 | Silver    | 3.0           | U        | Ī  | P  |
| 7440-23-5 | Sodium    | 176000        | 1        | EJ | P  |
| 7440-28-0 | Thallium  | 166           |          |    | P  |
| 7440-62-2 | Vanadium  | 518           |          | EJ | P  |
| 7440-66-6 | Zinc      | 30400         | 1        | EJ | P  |

| Color Before: | ORANGE | Clarity Before: | OPAQUE | Texture:   | HEAVY |
|---------------|--------|-----------------|--------|------------|-------|
| Color After:  | BROWN  | Clarity After:  | CLOUDY | Artifacts: |       |
| Comments:     |        |                 |        |            |       |
|               | 1      |                 |        |            |       |

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### INORGANIC ANALYSIS DATA SHEET

| SAMPLE | MO |
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| SC-229 |
|--------|

Contract: NY99-220

Lab Code: STLBFLO

Case No.:

SAS No.:

SDG NO.:

7010

Matrix (soil/water):

WATER

Lab Sample ID: AD114153

.114150

Level (low/med):

T.OW

Date Received: 7/24/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte   | Concentration | C  | Q    | М  |
|-----------|-----------|---------------|----|------|----|
| 7429-90-5 | Aluminum  | 1250          |    | E    | P  |
| 7440-38-2 | Arsenic   | 3120          |    |      | P  |
| 7440-39-3 | Barium    | 181           |    | EJ   | P  |
| 7440-41-7 | Beryllium | 5.0           | ט  | l    | P  |
| 7440-43-9 | Cadmium   | 49.7          | Ĭ  |      | P  |
| 7440-70-2 | Calcium   | 500           | ט  | 1    | P  |
| 7440-47-3 | Chromium  | 499           | 1  | EJ   | P  |
| 7440-48-4 | Cobalt    | 5.0           | סן | 1    | P  |
| 7440-50-8 | Copper    | 150           | 1  | 「ゴ   | P  |
| 7439-89-6 | Iron      | 1480000       |    | EJ   | P  |
| 7439-92-1 | Lead      | 392           | T  | ーゴ   | P  |
| 7439-95-4 | Magnesium | 482           | Ī  | E    | P  |
| 7439-96-5 | Manganese | 2710          | Ī  | E 3  | P  |
| 7440-02-0 | Nickel    | 10            | Ŭ  |      | P  |
| 7440-09-7 | Potassium | 559           |    |      | P  |
| 7782-49-2 | Selenium  | 2980          |    |      | P  |
| 7439-97-6 | Mercury   | 8.5           | Ū  | WI   | cv |
| 7440-22-4 | Silver    | 3.0           | ט  |      | P  |
| 7440-23-5 | Sodium    | 3530          |    | ميدا | P  |
| 7440-62-2 | Vanadium  | 34.1          |    | E    | P  |
| 7440-66-6 | Zinc      | 357           |    | EJ   | P  |
| 7440-36-0 | Antimony  | 20.0          | ט  |      | М  |
| 7440-28-0 | Thallium  | 20.0          | ש  | ]    | М  |

| Color Before | ORANGE | Clarity Before: | OPAQUE | Texture:     | OIL |
|--------------|--------|-----------------|--------|--------------|-----|
| Color After: | ORANGE | Clarity After:  | CLEAR  | _ Artifacts: |     |
| Comments:    |        |                 |        |              |     |
|              |        |                 |        |              |     |

#### **INORGANIC ANALYSIS DATA SHEET**

SAMPLE NO.

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|--------|---|----|----|---|--|---|---|--|---|--|--|
|        |   |    |    | _ |  |   |   |  |   |  |  |
| SC-PHD |   | ٠( | חו | 1 |  |   |   |  |   |  |  |
|        | ٠ | •  |    | • |  |   |   |  |   |  |  |
|        |   |    |    |   |  |   |   |  |   |  |  |

Contract: NY99-220

Lab Code: STLBFLO

Case No.:

WATER

SAS No.:

SDG NO.:

7010

Matrix (soil/water):

Lab Sample ID: AD114155

Level (low/med):

LOW

Date Received: 7/24/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

|           | ,   |                |          |          |
|-----------|---|----------------|----------|----------|
| Analyte   | Concentration   | С              | Q        | М        |
| Aluminum  | 18000   | 1              | EJ       | P        |
| Antimony  | 79.9  |                | 1 7      | P        |
| Arsenic   | 7.7   | 1              | JE /     | P        |
| Barium    | 1100  |                | EJ       | P        |
| Beryllium | 5.0   | ט              |          | P        |
| Cadmium   | 1.7   |                |          | P        |
| Calcium   | 238000  |                | コゴ       | P        |
| Chromium  | 196   |                | EJ       | P        |
| Cobalt    | 10.1  |                | 1 3      | P        |
| Copper    | 121   | T              | 13       | P        |
| Iron      | 76400   |                | EJ       | P        |
| Lead      | 138   |                | IJ       | P        |
| Magnesium | 5640  |                | IE I     | P        |
| Manganese | 567   |                | EJ       | P        |
| Nickel    | 40.0  | $\overline{1}$ | 1        | P        |
| Potassium | 56300   | T              | 13       | P        |
| Selenium  | 10.0  | ש              | Ī        | P        |
| Mercury   | 0.200   | ש              | 13       | cv       |
| Silver    | 3.0   | ט              | ] :      | P        |
| Sodium    | 126000  | T              | 25       | P        |
| Thallium  | 21.7  |                | J        | P        |
| Vanadium  | 35.7  | T              | EJ       | P        |
| Zinc      | 88100   |                | E J      | P        |
|           | Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Mercury Silver Sodium Thallium Vanadium | Aluminum       | Aluminum | Aluminum |

| Color Before: | BROWN | Clarity Before: | CLOUDY | Texture:   | HEAVY |
|---------------|-------|-----------------|--------|------------|-------|
| Color After:  | BROWN | Clarity After:  | CLOUDY | Artifacts: |       |
| Comments:     |       |                 |        |            |       |
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# INORGANIC ANALYSIS DATA SHEET

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| sc-purh1 | <br> |  |
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| ·        |      |  |

Contract: NY99-220

Lab Code: STLBFLO

Level (low/med):

Case No.:

SAS No.:

SDG NO.:

7010

Matrix (soil/water):

WATER

LOW

Lab Sample ID: AD114154

.

Date Received: 7/24/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte   | Concentration | C  | Q   | м  |
|-----------|-----------|---------------|----|-----|----|
| 7429-90-5 | Aluminum  | 36500         | 1  | EJ  | P  |
| 7440-36-0 | Antimony  | 36.4          | T  | 13  | P  |
| 7440-38-2 | Arsenic   | 15.1          |    | JE. | P  |
| 7440-39-3 | Barium    | 1410          |    | EJ  | P  |
| 7440-41-7 | Beryllium | 5.0           | טן |     | P  |
| 7440-43-9 | Cadmium   | 1.6           | 1  |     | P  |
| 7440-70-2 | Calcium   | 367000        | Ī  | 13  | P  |
| 7440-47-3 | Chromium  | 313           | 1  | EJ  | P  |
| 7440-48-4 | Cobalt    | 17.6          | Ī  | 13  | P  |
| 7440-50-8 | Copper    | 166           |    | 13  | P  |
| 7439-89-6 | Iron      | 81400         | 1  | EJ  | P  |
| 7439-92-1 | Lead      | 112           | Π  | 13  | P  |
| 7439-95-4 | Magnesium | 11300         | 1  | EJ  | P  |
| 7439-96-5 | Manganese | 764           |    | EJ  | P  |
| 7440-02-0 | Nickel    | 74.6          | Π  | 13  | P  |
| 7440-09-7 | Potassium | 79100         | 1  | 13  | P  |
| 7782-49-2 | Selenium  | 10.0          | ט  |     | P  |
| 7439-97-6 | Mercury   | 0.200         | ט  | 13  | cv |
| 7440-22-4 | Silver    | 3.0           | ט  | j   | P  |
| 7440-23-5 | Sodium    | 152000        |    | 足了  | P  |
| 7440-28-0 | Thallium  | 20.3          |    |     | P  |
| 7440-62-2 | Vanadium  | 75.1          |    | E   | P  |
| 7440-66-6 | Zinc      | 29600         | ĵ. | E   | P  |

| Color Before: | BROWN | Clarity Before: | CLOUDY | Texture:   | HEAVY |
|---------------|-------|-----------------|--------|------------|-------|
| Color After:  | BROWN | Clarity After:  | CLOUDY | Artifacts: |       |
| Comments:     |       |                 |        | •          |       |
|               |       |                 |        |            |       |

### **INORGANIC ANALYSIS DATA SHEET**

|   | SAMPLE NO. |  |
|---|------------|--|
| ĺ |            |  |
| I | SC-243     |  |

Contract: NY99-220

Lab Code: STLBFLO

Case No.:

SAS No.:

SDG NO.:

7010

Matrix (soil/water):

WATER

Lab Sample ID: AD114737

Level (low/med):

LOW

Date Received: 7/24/01

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte   | Concentration | С  | Q   | M  |
|-----------|-----------|---------------|----|-----|----|
| 7429-90-5 | Aluminum  | 685000        | 1  | EJ  | P  |
| 7440-36-0 | Antimony  | 57.5          | 1  | 24  | P  |
| 7440-38-2 | Arsenic   | 149           |    | 1 1 | P  |
| 7440-39-3 | Barium    | 28.1          |    | 13  | P  |
| 7440-41-7 | Beryllium | 16.4          | T  |     | P  |
| 7440-43-9 | Cadmium   | 9.8           | T  |     | P  |
| 7440-70-2 | Calcium   | 310000        |    | 框了  | P  |
| 7440-47-3 | Chromium  | 11300         | 1  | E   | P  |
| 7440-48-4 | Cobalt    | 318           |    | 13  | P  |
| 7440-50-8 | Copper    | 648           | T  |     | P  |
| 7439-89-6 | Iron      | 522000        | Ī  | EJ  | P  |
| 7439-92-1 | Lead      | 585           | 1  | 13  | P  |
| 7439-95-4 | Magnesium | 190000        | T  | E J | P  |
| 7439-96-5 | Manganese | 6550          | 1  | E J | P  |
| 7440-02-0 | Nickel    | 1870          |    | EJ  | P  |
| 7440-09-7 | Potassium | 114000        |    | ]   | P  |
| 7782-49-2 | Selenium  | 20.0          | טן | 1   | P  |
| 7439-97-6 | Mercury   | 0.200         | טן | 11  | CV |
| 7440-22-4 | Silver    | 6.0           | U  | 1   | P  |
| 7440-23-5 | Sodium    | 1060000       |    | 1   | P  |
| 7440-28-0 | Thallium  | 40.0          | ט  | 1   | P  |
| 7440-62-2 | Vanadium  | 2380          | ļ  | E   | P  |
| 7440-66-6 | Zinc      | 2160          |    | E   | P  |

| Color Before | : ORANGE | Clarity Before: | CLEAR | Texture:   | NONE |
|--------------|----------|-----------------|-------|------------|------|
| Color After: | ORANGE   | Clarity After:  | CLEAR | Artifacts: |      |
| Comments:    |          |                 |       |            |      |
| _            |          |                 |       |            |      |
| _            | ·        |                 |       |            |      |

### **INORGANIC ANALYSIS DATA SHEET**

|   | SAMPLE | NO. |      |   |       |      |   |
|---|--------|-----|------|---|-------|------|---|
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| ł | ł      |     |      |   |       |      |   |
| 1 | SC-230 |     |      |   |       |      |   |
| ł | 30 230 |     |      |   |       |      |   |

Contract: NY99-220

Lab Code: STLBFLO

SAS No.: Case No.:

SDG NO.:

7010

Matrix (soil/water):

SOIL

Lab Sample ID: AD114259

Level (low/med):

LOW

Date Received: 7/24/01

% Solids: 65

Concentration Units (ug/L or mg/kg dry weight):

|           | 1         | 1             |     | <del></del> | 1  |
|-----------|-----------|---------------|-----|-------------|----|
| CAS No.   | Analyte   | Concentration | C   | Ω           | М  |
| 7429-90-5 | Aluminum  | 30.7          | ָּט | 1           | P  |
| 7440-36-0 | Antimony  | 15.3          | Ü   | NJ          | P  |
| 7440-38-2 | Arsenic   | 1.5           | ם   |             | P  |
| 7440-39-3 | Barium    | 8.3           | 1   | NJ          | P  |
| 7440-41-7 | Beryllium | 0.77          | ס   | <u> </u>    | P  |
| 7440-43-9 | Cadmium   | 0.77          | ט   |             | P  |
| 7440-70-2 | Calcium   | 1050          | ]   | 1           | P  |
| 7440-47-3 | Chromium  | 4.7           |     |             | P  |
| 7440-48-4 | Cobalt    | 3.1           | ט   | Lu          | P  |
| 7440-50-8 | Copper    | 4.8           |     | NJ          | P  |
| 7439-89-6 | lron      | 136           | ]   |             | P  |
| 7439-92-1 | Lead      | 7.7           | ט   | LK          | P  |
| 7439-95-4 | Magnesium | 419           |     | 1200        | P  |
| 7439-96-5 | Manganese | 61-4-         | 1   | H-R         | P  |
| 7440-02-0 | Nickel    | -2-1          | ļi. | THE R       | P  |
| 7440-09-7 | Potassium | 307           | סן  | ]           | P  |
| 7782-49-2 | Selenium  | 4.6           | ש   | 17          | P  |
| 7439-97-6 | Mercury   | 0.153         | ס   | WJ          | cv |
| 7440-22-4 | Silver    | 1.5           | ט   | 1           | P  |
| 7440-23-5 | Sodium    | 398           |     |             | P  |
| 7440-28-0 | Thallium  | 9.2           | טן  |             | P  |
| 7440-62-2 | Vanadium  | -1.5          | 111 | N R         | P  |
| 7440-66-6 | Zinc      | -13.4         |     | PT-R        | P  |

| Color  | Before:  | GRAY   | Clarity Before: | <del></del> | Texture:   | MEDIUM |
|--------|--|--------|-----------------|-------------|------------|--------|
| Color  | After:   | YELLOW | Clarity After:  | CLOUDY      | Artifacts: |        |
| Commen | ts:  |        |                 |             |            |        |
|        | · <u>• • • • • • • • • • • • • • • • • • •</u> |        |                 |             | x x        |        |

### **INORGANIC ANALYSIS DATA SHEET**

| SAMPLE | NO |
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| SC | -2 | 4 | 15 | 15 |  |  |  |
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Contract: NY99-220

Lab Code: STLBFLO

Case No.:

SAS No.:

SDG NO.:

7010

Matrix (soil/water):

SOIL

Lab Sample ID: AD114257

Level (low/med):

LOW

Date Received: 7/24/01

% Solids: 100

Concentration Units (ug/L or mg/kg dry weight):

| CAS No.   | Analyte   | Concentration | C   | Q     | М  |
|-----------|-----------|---------------|-----|-------|----|
| 7429-90-5 | Aluminum  | 135           | 1   | 4     | P  |
| 7440-36-0 | Antimony  | 9.9           | ט   | IN I  | P  |
| 7440-38-2 | Arsenic   | 1.2           |     | 1     | P  |
| 7440-39-3 | Barium    | 0.99          | טן  | NJ    | P  |
| 7440-41-7 | Beryllium | 0.50          | ַ ט | 1     | P  |
| 7440-43-9 | Cadmium   | 0.50          | ט   | j     | P  |
| 7440-70-2 | Calcium   | 99.3          | ש   |       | P  |
| 7440-47-3 | Chromium  | 6.1           | I   |       | P  |
| 7440-48-4 | Cobalt    | 2.0           | U   | NJ    | P  |
| 7440-50-8 | Copper    | 2.0           | ט   | и     | P  |
| 7439-89-6 | Iron      | 654           | T.  | .]    | P  |
| 7439-92-1 | Lead      | 5.0           | ט   | иД    | P  |
| 7439-95-4 | Magnesium | 19.9          | ש   | 24    | P  |
| 7439-96-5 | Manganese | 1 1.7         | 1_  | PF R  | P  |
| 7440-02-0 | Nickel    | -2.0          | μ.  | HAT R | P  |
| 7440-09-7 | Potassium | 199           | שׁ  | 1     | P  |
| 7782-49-2 | Selenium  | 3.0           | שׁ  | IJ    | P  |
| 7440-22-4 | Silver    | 0.99          | U   |       | P  |
| 7439-97-6 | Mercury   | 0.098         | ט   | JX I  | cv |
| 7440-23-5 | Sodium    | 99.3          | ט   |       | P  |
| 7440-28-0 | Thallium  | 6.0           | ט   |       | P  |
| 7440-62-2 | Vanadium  | -1.0          |     | P R   | P  |
| 7440-66-6 | Zinc      | 798           | +   | NR    | P  |

| Color  | Before: | BROWN  | Clarity Before: |        | Texture:   | OIL |
|--------|---------|--------|-----------------|--------|------------|-----|
| Color  | After:  | YELLOW | Clarity After:  | CLOUDY | Artifacts: |     |
| Commen | ts:     |        |                 |        |            |     |
|        |         |        |                 |        |            |     |

#### -1-

#### **INORGANIC ANALYSIS DATA SHEET**

| SAMPLE | NO. |
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| 1     |   |  |

Contract: NY99-220

Lab Code: STLBFLO

Case No.:

SAS No.:

SDG NO.:

7010

Matrix (soil/water):

SOIL

Lab Sample ID: AD114258

Nata Danida 1 7/04/01

% Solids: 100

Level (low/med):

LOW

Date Received: 7/24/01

-

Concentration Units (ug/L or mg/kg dry weight):

|           | <del></del> |               | •   |          | <del>, ,</del> |
|-----------|-------------|---------------|-----|----------|----------------|
| CAS No.   | Analyte     | Concentration | С   | Q        | М              |
| 7429-90-5 | Aluminum    | 20.2          | ט   | 14       | P              |
| 7440-36-0 | Antimony    | 10.1          | ש   | Lu       | P              |
| 7440-38-2 | Arsenic     | 11.4          |     | 1        | P              |
| 7440-39-3 | Barium      | 1.0           | ש   | NJ       | P              |
| 7440-41-7 | Beryllium   | 0.51          | ט   | 1        | P              |
| 7440-43-9 | Cadmium     | 0.51          | ש   |          | P              |
| 7440-70-2 | Calcium     | 101           | Ū   |          | P              |
| 7440-47-3 | Chromium    | 2.0           | ס   | <u>.</u> | P              |
| 7440-48-4 | Cobalt      | 2.0           | Ù   | и        | P              |
| 7440-50-8 | Copper      | 2.0           | ם   | NJ       | P              |
| 7439-89-6 | Iron        | 255           |     | 1        | P              |
| 7439-92-1 | Lead        | 5.1           | ם   | N        | P              |
| 7439-95-4 | Magnesium   | 20.2          | ט   | Nima     | P              |
| 7439-96-5 | Manganese   | -1.4          | 1_  | W-R      | P              |
| 7440-02-0 | Nickel      |               | 11. | M-R      | P              |
| 7440-09-7 | Potassium   | 613           | 1   | 1        | P              |
| 7782-49-2 | Selenium    | 3.0           | טן  | T        | P              |
| 7440-22-4 | Silver      | 1.0           | ט   | 1        | P              |
| 7439-97-6 | Mercury     | 0.089         | ט   | MI       | cv             |
| 7440-23-5 | Sodium      | 126000        |     | 1.       | P              |
| 7440-28-0 | Thallium    | 6.1           | Ū   | <u> </u> | P              |
| 7440-62-2 | Vanadium    |               | -   | #-R      | P              |
| 7440-66-6 | Zinc        | _1_0_         |     | PR R     | P              |

| Color Before: | BROWN  | Clarity | Before: |        | Texture:   | OIL |
|---------------|--------|---------|---------|--------|------------|-----|
| Color After:  | YELLOW | Clarity | After:  | CLOUDY | Artifacts: |     |
| Comments:     |        |         |         |        | •          |     |
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### **INORGANIC ANALYSIS DATA SHEET**

SAMPLE NO.

| 4 |              | <br> |  |
|---|--------------|------|--|
| 1 | SC-CC11-COMP |      |  |
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Contract: NY99-220

Lab Code: STLBFLO

Case No.:

SAS No.:

SDG NO.:

7010

Matrix (soil/water):

Lab Sample ID: AD114256

Level (low/med):

LOW

Date Received: 7/24/01

% Solids: 100

Concentration Units (ug/L or mg/kg dry weight):

| CAS No.   | Analyte   | Concentration | C          | Q        | м  |
|-----------|-----------|---------------|------------|----------|----|
| 7429-90-5 | Aluminum  | 20.0          | ט          | No.      | P  |
| 7440-36-0 | Antimony  | 10.0          | บ          | NJ       | P  |
| 7440-38-2 | Arsenic   | 1.0           | U          |          | P  |
| 7440-39-3 | Barium    | 1.0           | ט          | й        | P  |
| 7440-41-7 | Beryllium | 0.50          | ט          |          | P  |
| 7440-43-9 | Cadmium   | 0.50          | U          | ]        | P  |
| 7440-70-2 | Calcium   | 99.9          | ט          | 1        | P  |
| 7440-47-3 | Chromium  | 2.4           |            |          | P  |
| 7440-48-4 | Cobalt    | 2.0           | ט          | N T      | P  |
| 7440-50-8 | Copper    | 2.0           | ט          | N        | P  |
| 7439-89-6 | Iron      | 399           |            | 1        | P  |
| 7439-92-1 | Lead      | 5.0           | ט          | NI       | Р  |
| 7439-95-4 | Magnesium | 20.0          | ש          | 120      | P  |
| 7439-96-5 | Manganese | -22           |            | 17-P     | P  |
| 7440-02-0 | Nickel    | 2.0           | 11         | W-R      | P  |
| 7440-09-7 | Potassium | 200           | U          |          | P  |
| 7782-49-2 | Selenium  | 3.0           | U          | 3        | P  |
| 7440-22-4 | Silver    | 1.0           | U          | <u> </u> | P  |
| 7439-97-6 | Mercury   | 0.156         |            | M        | cv |
| 7440-23-5 | Sodium    | 714           |            |          | P  |
| 7440-28-0 | Thallium  | 6.0           | Ü          |          | P  |
| 7440-62-2 | Vanadium  | -1.0-         | <b>U</b> - | M-R      | ·P |
| 7440-66-6 | Zinc      | -4.6          | <b> </b>   | 19m Q    | P  |

| Color Before: | BROWN  | Clarity Before: |        | Texture:   | OIL |
|---------------|--------|-----------------|--------|------------|-----|
| Color After:  | YELLOW | Clarity After:  | CLOUDY | Artifacts: |     |
| Comments:     |        |                 |        | , .        |     |
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### **INORGANIC ANALYSIS DATA SHEET**

SAMPLE NO.

| _   |    |    |     | -  |     |     |  |   |   | - / | ~ |  | 1 |   |  |    | _ : |
|-----|----|----|-----|----|-----|-----|--|---|---|-----|---|--|---|---|--|----|-----|
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|     | 27 | 1  | 15/ | ~~ | M   | 63  |  |   |   |     |   |  |   |   |  |    |     |
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| ŀ   |    |    |     |    |     |     |  |   |   |     |   |  |   |   |  |    |     |
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|     |    |    |     |    |     |     |  |   |   |     |   |  |   |   |  |    |     |

Contract: NY99-220

Lab Code: STLBFLO

Case No.:

SAS No.:

SDG NO.:

7010

Matrix (soil/water):

SOIL

LOW

Lab Sample ID: AD114260

Date Received: 7/24/01

% Solids: 36

Level (low/med):

Concentration Units (ug/L or mg/kg dry weight):

| CAS No.   | Analyte   | Concentration | С        | Q    | М  |
|-----------|-----------|---------------|----------|------|----|
| 7429-90-5 | Aluminum  | 4920          | 1        | W J  | P  |
| 7440-36-0 | Antimony  | 28.1          | שׁ       | N    | P  |
| 7440-38-2 | Arsenic   | 4.5           |          |      | P  |
| 7440-39-3 | Barium    | 32.0          | 1        | NJ   | P  |
| 7440-41-7 | Beryllium | 1.4           | ש        | 7    | P  |
| 7440-43-9 | Cadmium   | 1.4           | ט        | コ    | P  |
| 7440-70-2 | Calcium   | 17400         |          | J    | P  |
| 7440-47-3 | Chromium  | 2440          |          | 一丁   | P  |
| 7440-48-4 | Cobalt    | 14.6          | 1        | NJ   | P  |
| 7440-50-8 | Copper    | 18.0          |          | N    | P  |
| 7439-89-6 | Íron      | 11400         |          | 1    | P  |
| 7439-92-1 | Lead      | 26.4          |          | N J  | P  |
| 7439-95-4 | Magnesium | 4750          | <u> </u> | X T  | P  |
| 7439-96-5 | Manganese | 114           | -        | R R  | P  |
| 7440-02-0 | Nickel    | -102          | 1        | N-R  | P  |
| 7440-09-7 | Potassium | 562           | ט        | 1 7  | P  |
| 7782-49-2 | Selenium  | 8.4           | U        | 3    | P  |
| 7439-97-6 | Mercury   | 1.5           |          | イド   | CV |
| 7440-22-4 | Silver    | 2.8           | ט        |      | P  |
| 7440-23-5 | Sodium    | 1490          |          |      | P  |
| 7440-28-0 | Thallium  | 16.9          | ט        | J    | P  |
| 7440-62-2 | Vanadium  | -104          | <b> </b> | N-R  | P  |
| 7440-66-6 | Zinc      | -67-2         | 1        | 17-R | P  |

| Color | Before: | BROWN    | Clarity Befor | re:         | Texture:   | MEDIUM |
|-------|---------|----------|---------------|-------------|------------|--------|
| Color | After:  | YELLOW   | Clarity After | r: CLOUDY   | Artifacts: |        |
| Comme | nts:    |          |               |             |            |        |
|       |         | <u> </u> |               | <del></del> |            |        |

002804 Client Sample No.

| ISC-CC11-CO | MP | • |
|-------------|----|---|
|             |    |   |

Lab Name: STL Buffalo

Contract:

Lab Code: RECNY Case No.:

SAS No.:

SDG No.: 7010

Matrix (soil/water): SOIL

Lab Sample ID: A1701001

₹ Solids: <u>0.0</u>

| Parameter Name              | Units of<br>Measure | Result | С | Q | М | Method<br>Number | Analyzed<br>Date |
|-----------------------------|---------------------|--------|---|---|---|------------------|------------------|
| Hexavalent Chromium - Total | MG/KG               | 1.0    | υ | · | A | 7196A            | 07/27/2001       |

| _        | 4 |             |              |   | <br>• |
|----------|---|-------------|--------------|---|-------|
| omments: |   |             |              |   |       |
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Client Sample No.

| SC-DFCOMP1 |  |   |
|------------|--|---|
|            |  | 1 |

Lab Name: STL Buffalo

Contract: \_

Lab Code: <u>RECNY</u>

Case No.: \_\_\_\_

SAS No.: \_\_\_\_

SDG No.: 7010

Matrix (soil/water): SOIL

Lab Sample ID: A1701202

₹ Solids:

<u>36.3</u>

| Parameter Name              | Units of<br>Measure | Result | С | Q | М | Method<br>Number | Analyzed<br>Date |
|-----------------------------|---------------------|--------|---|---|---|------------------|------------------|
| Hexavalent Chromium - Total | MG/KG               | 920    |   | Н | A | 7196A            | 08/25/2001       |

| nts:        | • |             |              |             |             |             |             | • |
|-------------|---|-------------|--------------|-------------|-------------|-------------|-------------|---|
|             |   |             |              |             | ř           |             |             |   |
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|             |   |             |              |             |             |             |             |   |

002806

Client Sample No.

|                              |           | SC-PHD-001 |
|------------------------------|-----------|------------|
| Lab Name: <u>STL Buffalo</u> | Contract: |            |

SAS No.: \_

Matrix (soil/water): WATER

SDG No.: 7010

Lab Sample ID: A1701103

% Solids:

0.0

Lab Code: RECNY Case No.: \_\_\_\_

| Parameter Name              | Units of<br>Measure | Result | С | Q | м | Method<br>Number | Analyzed<br>Date |
|-----------------------------|---------------------|--------|---|---|---|------------------|------------------|
| Hexavalent Chromium - Total | MG/L                | 0.010  | U |   | A | 7196A            | 07/25/2001       |

| omments: |  |   |              |              |      |
|----------|--|---|--------------|--------------|------|
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Contract: \_

Client Sample No. SC-PURH1 SDG No.: 7010

ab Name: STL Buffalo

ab Code: <u>RECNY</u> Case No.:

SAS No.: \_\_\_\_

Matrix (soil/water): WATER

Lab Sample ID: A1701102

s Solids:

| Parameter Name              | Units of<br>Measure | Result | С | Q | М | Method<br>Number | Analyzed<br>Date |
|-----------------------------|---------------------|--------|---|---|---|------------------|------------------|
| Hexavalent Chromium - Total | MG/L                | 0.010  | U |   | Α | 7196A            | 07/25/2001       |

| ments:                                |              |  | •             |              |             |              |
|---------------------------------------|--------------|--|---------------|--------------|-------------|--------------|
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Client Sample No.

|     | SC-PURMI |  |
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| - 1 |          |  |

Lab Name: STL Buffalo

Contract:

Lab Code: RECNY

Case No.: \_

SAS No.: \_\_\_\_

SDG No.: 7010

Matrix (soil/water): WATER

Lab Sample ID: A1701104

₹ Solids:

| Parameter Name              | Units of<br>Measure | Result | С | Q | М | Method<br>Number | Analyzed<br>Date |
|-----------------------------|---------------------|--------|---|---|---|------------------|------------------|
| Hexavalent Chromium - Total | MG/L                | 0.010  | U |   | A | 7196A            | 07/25/2001       |

| Comments: |                                       |      |  |
|-----------|---------------------------------------|------|--|
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Client Sample No.

| 15C-229 | 000 | 20 |  |
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|         |     |    |  |

ab Name: STL Buffalo

Contract: \_

ab Code: RECNY

Case No.:

SAS No.: \_

SDG No.: 7010

Matrix (soil/water): WATER

Lab Sample ID: A1701101

k Solids:

0.0

|                             | Units of<br>Measure | Result | С | Q | М | Method<br>Number | Analyzed<br>Date |
|-----------------------------|---------------------|--------|---|---|---|------------------|------------------|
| Hexavalent Chromium - Total | MG/L                | 0.10   |   | , | A | 7196 <b>A</b>    | 07/25/2001       |

| ents: |  |  |  |
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002809

Client Sample No.

|        |      |     | <br> |  |
|--------|------|-----|------|--|
| SC-    | -230 | ) · |      |  |
| 1      |      |     | 4    |  |
| 1 -4 - | w    | 196 | <br> |  |

ab Name: STL Buffalo

Contract:

ab Code: <u>RECNY</u> Case No.:

SAS No.:

SDG No.: 7010

Matrix (soil/water): SOIL

Lab Sample ID: A1701201

Solids:

<u>65.2</u>

| Parameter Name              | Units of<br>Measure | Result | С | Q | М | Method<br>Number | Analyzed<br>Date |
|-----------------------------|---------------------|--------|---|---|---|------------------|------------------|
| Hexavalent Chromium - Total | MG/KG               | 1.0    | Ū |   | Α | 7196A            | 07/27/2001       |

|         |   | <br>        |             |         | and the second s |   |
|---------|---|-------------|-------------|---------|--|---|
|         |   |             |             |         |  | - |
|         |   |             |             |         |  |   |
|         | * |             |             |         |  | • |
| mments: |   |             |             |         |  |   |
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Client Sample No. 11

|        | <br> |  |
|--------|------|--|
| SC-243 |      |  |
| 100    |      |  |

ab Name: STL Buffalo

Contract:

ab Code: RECNY

Case No.: \_\_\_\_

SAS No.: \_\_\_\_

SDG No.: 7010

Matrix (soil/water): WATER

Lab Sample ID: A1701105

} Solids:

0.0

| Parameter Name              | Units of<br>Measure | Result | С | Q | М | Method<br>Number | Analyzed<br>Date |
|-----------------------------|---------------------|--------|---|---|---|------------------|------------------|
| Hexavalent Chromium - Total | MG/L                | 0.020  | บ |   | A | 7196A            | 07/25/2001       |

| ints:    |          |      |  |
|----------|----------|------|--|
|          | •        |      |  |
| <u> </u> |          |      |  |
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Client Sample No.

| •                     |             |           |     |
|-----------------------|-------------|-----------|-----|
|                       |             | SC-241515 | l   |
| Lab Name: STL Buffalo | Contract: _ | <u> </u>  | لبب |

SAS No.: \_\_\_\_

SDG No.: <u>7010</u>

Matrix (soil/water): SOIL

Lab Sample ID: A1701002

₹ Solids:

Lab Code: RECNY

0.0

Case No.: \_\_\_\_

| Parameter Name              | Units of<br>Measure | Result | С | Q | м | Method<br>Number | Analyzed<br>Date |
|-----------------------------|---------------------|--------|---|---|---|------------------|------------------|
| Hexavalent Chromium - Total | MG/KG               | 1.0    | U |   | A | 7196A            | 07/27/2001       |

| mments: |  |  |  |
|---------|--|--|--|
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|         |  |  |  |
|         |  |  |  |

 $\begin{array}{c} 002813 \\ \text{Client Sample No.} \end{array}$ 

SC-493

ab Name: STL Buffalo

Contract:

ab Code: RECNY Case No.: \_

SAS No.: \_\_\_

SDG No.: 7010

Matrix (soil/water): SOIL

Lab Sample ID: A1701004

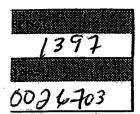
} Solids:

0.0

| Parameter Name              | Units of<br>Measure | Result | С | Q | М | Method<br>Number | Analyzed<br>Date |
|-----------------------------|---------------------|--------|---|---|---|------------------|------------------|
| Hexavalent Chromium - Total | MG/KG               | 1.0    | บ |   | A | 7196A            | 07/27/2001       |

| omments: | • |  |  |                                       |   |                 | :    |      |
|----------|---|--|--|---------------------------------------|---|-----------------|------|------|
|          |   |  |  |                                       | • |                 |      |      |
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# CHAIN OF CUSTODY RECORD





**Removal Support Team** EPA CONTRACT 68-W-00-113 Phone (732)225-6116 Fax: 732-225-7037

| 1. Surface       | 1. HCI             |
|------------------|--------------------|
| 2. Ground Water  | 2. HN03            |
| 3. Leachate      | 3. Na2SO4          |
| 4. Rinsate       | 4. H2SO4           |
| 5. Soil/Sediment | 5. Other (Specify) |
| 6. Oil           | 6. Ice Only        |
| 7. Waste         | N. Not Preserved   |
| 8. Other         | * See Comments     |

AAA.

| and verbal and writ | tten results to:                       |                                      | Suite                                  | F. Weston<br>201, 109<br>ntion: Smi | 0 King                                  | Georges I<br>baly, RST | ost Ro       | ad, Edisc<br>tical Cod | on, New<br>ordinator | Jersey   | 08837-   | 3703 |          |        |  |                |  |  |  |
|---------------------|--|--------------------------------------|--|-------------------------------------|---|------------------------|--------------|------------------------|----------------------|----------|----------|------|----------|--------|--|----------------|--|--|--|
|                     |  |                                      |  |                                     |   |                        |              | 23.53                  |                      |          |          | RCI  | RA AN    | ALYSIS | LYSIS  |                |  |  |  |
| *                   | Sample Collection<br>184000/YY<br>Time | Sample<br>Mattix<br>(Ester<br>box I) | Conc.<br>Low-L<br>Med-M<br>High-R      | Sample<br>Type<br>Comp-C<br>Gath-G  | Sample<br>Preserv.<br>(Enter<br>Box (t) | VOA                    | BNA          | PEST                   | PCBs                 | TAL      | СИ       | IGN  | CÓR      | REAC   | OTHER<br>Crt2                                    | Metels         |  |  |  |
| :-cc11-comp         | 1/28/01 1025                           | 4/1                                  | H                                      | 2                                   | 4                                       | X                      |              |                        | X                    | X        |          |      |          |        | X  | 10784          |  |  |  |
| -2291               | 1030                                   |                                      |  | G                                   |   | X                      |              |                        | IX                   | IX.      | -        |      |          |        | X  |                |  |  |  |
| -741575 V           | 1033                                   | V                                    | V                                      | 2                                   |   | $\perp X$              |              |                        | IX                   | X        |          |      |          |        | X  |                |  |  |  |
| c-2301              | 1130                                   | . 87 -                               | M                                      | 9                                   |   | $\bot X$               |              | <u> </u>               | X                    | X        |          |      |          |        | X  |                |  |  |  |
| C-228V              | 1 [35                                  | 6/7                                  | H                                      | 6                                   | $\sqcup$                                |                        |              |                        | IX.                  |          |          |      |          | ļ      |  |                |  |  |  |
| 16-243V             | 1140                                   | 1                                    |  |                                     |   | IX.                    |              | <u> </u>               | X                    | <b> </b> |          |      |          |        | X  |                |  |  |  |
| C-4613              | 1145                                   | V                                    | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 4                                   | <b>V</b>                                |                        | -            |                        | X                    | X        |          |      |          |        | X  | s/msn          |  |  |  |
| C PURHT             | 1200                                   | 2                                    | H                                      | ζ_                                  | Ino                                     | NX.                    | <del> </del> |                        | X                    | X        |          |      |          |        | X  | رومراد         |  |  |  |
| C-PHD-00            | 1215                                   | 1                                    |  |                                     | 16                                      |                        |              |                        | IX,                  | X        | ]        | _    |          |        | X.   | 10.40142       |  |  |  |
| C. PURMI            | 130                                    | -                                    | X.                                     | y                                   | 140                                     | 91                     | ₩            |                        | X                    | X        | /        | ļ    | <b> </b> |        | <del>                                     </del> | PURMI          |  |  |  |
| C-DECOMPT           | <b>√</b> /4:                           | V                                    |  | 1,                                  | 1-vê                                    | AX                     | <u></u>      | <u>l.</u>              |                      |          | <u> </u> | 3    |          |        |  |                |  |  |  |
| emments:            | TAL- NO                                | 7+                                   | pre                                    | seri                                | eo                                      | 1 0                    | uc           | ع محد :                | - * ¥                | re.      | 3 2      |      | 2        | i/     | 1 lak  | a_             |  |  |  |
| erson Assuming Re   | sponsibility for Sam                   | ples:                                |  |                                     |   | •                      |              | •                      |                      |          |          |      |          | Tin    | ne/Date  |                |  |  |  |
|                     | K                                      | <u>ماه</u>                           | ert                                    | ے ،                                 |   | =i n                   | ke           | 2                      |                      |          |          | `    |          | l.     | 83° A  | 123/01         |  |  |  |
| ample Number        | Relinquishe                            |                                      | <del>-</del>                           |                                     | Tim                                     |                        | <i>i</i> .   | Receive                | d By:                | 1        |          |      | ତ '      | Rea    | son for Char                                     | ige of Custody |  |  |  |
| AU LIST             | 20 16.6                                | <del>2</del> <del>f</del>            | ink                                    | <u>t</u>                            | 18                                      | 30 7                   | 2/2          | (w                     | ws &                 | nes      |          | 8    |          | 7/0    | 24/01  | 0948           |  |  |  |
| ample Number        | Relinquishe                            | d By:                                |  |                                     | Tim                                     | e Da                   | te i         | Receive                | d By:                |          | •        |      |          | Rea    | ison for Char                                    | ige of Custody |  |  |  |
| ample Number        | Relinquishe                            | d By:                                |  |                                     | Tim                                     | e Da                   | te 1         | Received               | d By:                |          |          |      | _        | Rea    | eson for Char                                    | ige of Custody |  |  |  |

y F. Weston, Inc.
DERAL PROGRAMS DIVISION
Association with Inland Pollution Services P.R., Inc., Resource Applications, Inc., and GRB Environmental Services, Inc.